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TREATISES

ON

SEVERAL SUBJECTS.

By DAVID HUME, Esq;

VOL. II.

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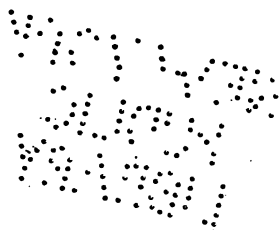
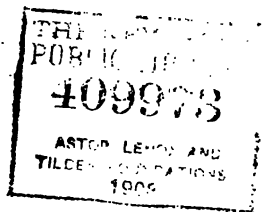
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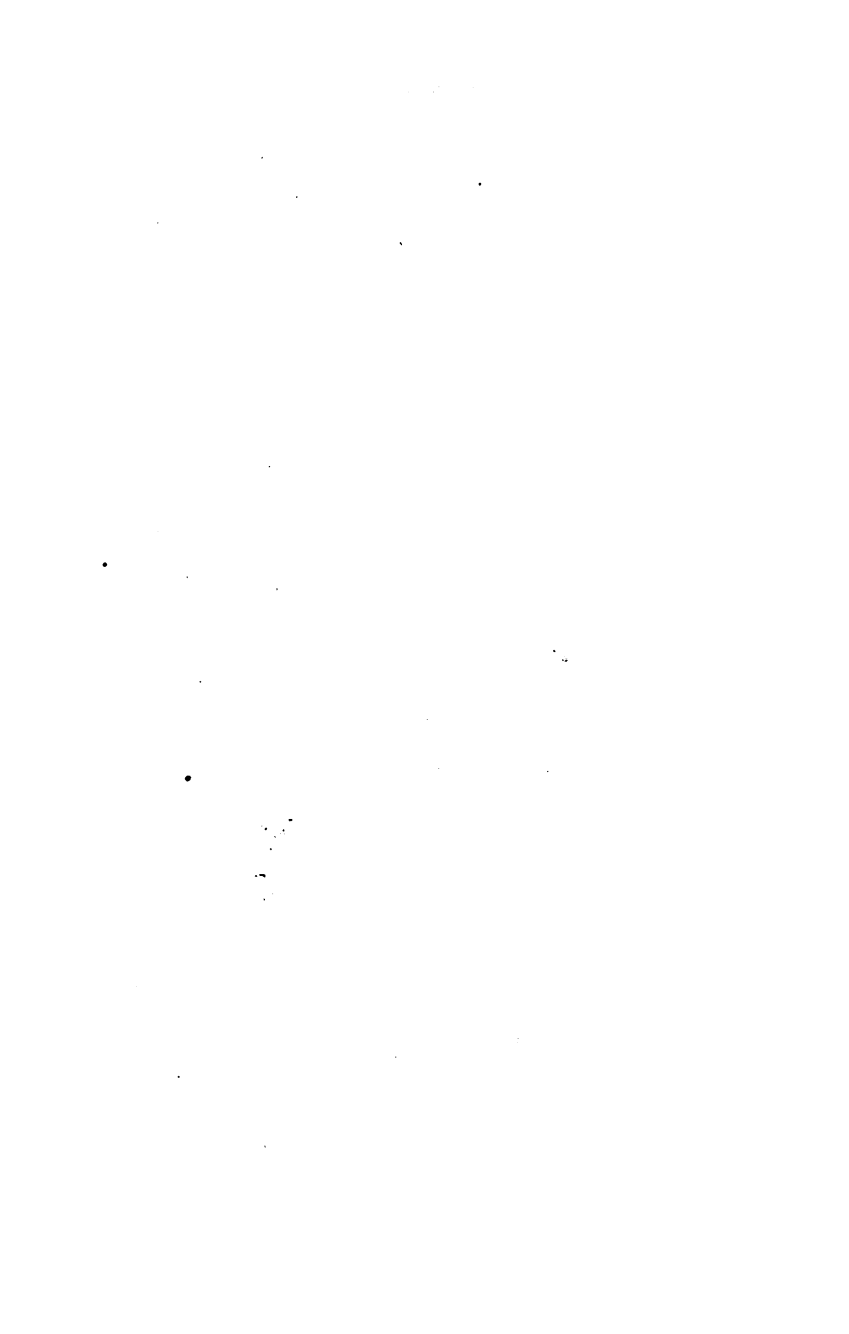
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ESSAY I.

Of the different Species of PHILOSOPHY.

MORAL philosophy, or the science of human nature, may be treated after two different manners ; each of which has its peculiar merit, and may contribute to the entertainment, instruction, and reformation of mankind. The one considers man chiefly as born for action ; and as influenc'd in his actions by taste and sentiment ; pursuing one object, and avoiding another, according to the value which these objects seem to possess, and according to the light, in which they present themselves. Virtue, of all objects, is the most valuable and lovely ; and accordingly this species of philosophers paint her in the most amiable colours, borrowing all helps from poetry and eloquence, and treating their subject in an easy and obvious manner, such as is best fitted to please the imagination, and engage the affections. They select the

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most striking observations and instances from common life ; place opposite characters in a proper contrast ; and alluring us into the paths of virtue, by the views of glory and happiness, direct our steps in these paths, by the soundest precepts and most illustrious examples. They make us *feel* the difference betwixt vice and virtue ; they excite and regulate our sentiments ; and so they can but bend our hearts to the love of probity and true honour, they think, that they have fully attained the end of all their labours.

THE other species of philosophers treat man rather as a reasonable than an active being, and endeavour to form his understanding more than cultivate his manners. They regard mankind as a subject of speculation ; and with a narrow scrutiny examine human nature, in order to find those principles, which regulate our understandings, excite our sentiments, and make us approve or blame any particular object, action, or behaviour. They think it a reproach to all literature, that philosophy should not yet have fixt, beyond controversy, the foundation of morals, reasoning, and criticism ; and should for ever talk of truth and falshood, vice and virtue, beauty and deformity, without being able to determine the source of these distinctions. While they attempt this arduous task, they are deter'd by no diffi-

difficulties ; but proceeding from particular instances to general principles, they still push on their enquiries to principles more general, and rest not satisfy'd till they arrive at those original principles, by which, in every science, all human curiosity must be bounded. Tho' their speculations seem abstract and even unintelligible to common readers, they please themselves with the approbation of the learned and the wise ; and think themselves sufficiently compensated for the labours of their whole lives, if they can discover some hidden truths, which may contribute to the instruction of posterity.

"This is certain, that the easy and obvious philosophy will always, with the generality of mankind, have the preference to the accurate and abstruse ; and by many will be recommended, not only as more agreeable, but more useful than the other. It enters more into common life ; moulds the heart and affections ; and, by touching those principles, which actuate men, reforms their conduct, and brings them nearer that model of perfection, which it describes. On the contrary, the abstruse philosophy, being founded on a turn of mind, which cannot enter into business and action, vanishes when the philosopher leaves the shade and comes into open day ; nor can its precepts and principles easily retain any influence over our conduct and behaviour. The feelings of our sentiments,

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the agitations of our passions. the vehemence of affections, dissipate all its conclusions, and reduce the profound philosopher to a mere plebeian.

This also must be confess'd, that the most durable as well as justest fame has been acquir'd by the philosophy, and that abstract reasoners seem hitherto have enjoy'd only a momentary reputation, if the caprice or ignorance of their own age, but have not been able to support their renown with an equitable posterity. 'Tis easy for a profound philosopher to commit a mistake in his subtle reasoning and one mistake is the necessary parent of another while he pushes on his consequences; and is not deter'd from embracing any conclusion, by its unlikeliness of appearance, or its contradiction to popular opinion. But a philosopher, who proposes only to represent common sense of mankind in more beautiful and more engaging colours, if by accident he commits a mistake, goes no farther; but renewing his appeal to common sense, and the natural sentiments of the mind, returns into the right path, and secures himself from any dangerous illusions. The same *Cicero* flourishes at present; but that of *Aristotle* is utterly decay'd. *La Bruyere* passes the seas, and maintains his reputation: But the glory of *Montaigne* is confin'd to his own nation and to his

age. And *Addison*, perhaps, will be read with pleasure, when *Locke* shall be entirely forgotten.

THE mere philosopher is a character which is commonly but little acceptable in the world, as being suppos'd to contribute nothing either to the advantage or pleasure of society ; while he lives remote from communication with mankind, and is wrapt up in principles and notions equally remote from their comprehension. On the other hand, the mere ignorant is still more despis'd ; nor is any thing esteem'd a surer sign of an illiberal genius, in an age and nation where the sciences flourish, than to be entirely void of all taste and relish for those noble entertainments. The most perfect character is suppos'd to lie betwixt those extremes ; retaining an equal ability and taste for books, company, and business ; preserving in conversation that discernment and delicacy which arise from polite letters ; and in business, that probity and accuracy which are the natural result of a just philosophy. In order to diffuse and cultivate so accomplish'd a character, nothing can be more useful than compositions of the easy style and manner, which draw not too much from life require no deep application or retreat to be comprehended, and send back the student among mankind full of noble sentiments and wise precepts, applicable to every emergence of human life. • By means

of such compositions, virtue becomes amiable, science agreeable, company instructive, and retirement entertaining.

MAN is a reasonable being ; and as such, receives from science his proper food and nourishment : But so narrow are the bounds of human understanding, that little satisfaction can be hop'd for in this particular, either from the extent or security of his acquisitions. Man is a sociable, no less than a reasonable being : But neither can he always enjoy company agreeable and amusing, or preserve the proper relish of them. Man is also an active being ; and from that disposition, as well as from the various necessities of human life, must submit to business and occupation : But the mind requires some relaxation, and cannot always support its bent to care and industry. It seems, then, that nature has pointed out a mixt kind of life as most suitable to human race, and secretly admonish'd them to allow none of these biases to *draw* too much, so as to incapacitate them for other occupations and entertainments. Indulge your passion for science, says she, but let your science be human, and such as may have a direct reference to action and society. Abstruse thought and profound researches I prohibit, and will severely punish, by the pensive melancholy which they introduce, by the endless uncertainty in which they involve you.

and

and by the cold reception which your pretended discoveries will meet with, when communicated. Be a philosopher ; but, amidst all your philosophy, be still a man.

WERE the generality of mankind contented to prefer the easy philosophy to the abstract and profound, without throwing any blame or contempt on the latter, it might not be improper, perhaps, to comply with this general opinion, and allow every man to enjoy, without opposition, his own taste and sentiment. But as the matter is often carry'd farther, even to the absolute rejecting all profound reasonings or what is commonly call'd *metaphysics*, we shall now proceed to consider what can reasonably be pleaded in their behalf.

We may begin with observing, that one considerable advantage which results from the accurate and abstract philosophy, is, its subserviency to the easy and humane ; which, without the former, can never attain a sufficient degree of exactness in its sentiments, precepts, or reasonings. All polite letters are nothing but pictures of human life in various attitudes and situations ; and inspire us with different sentiments of praise or blame, admiration or ridicule, according to the qualities of the object which they set before us. An artist must be better qualify'd to suc-

ceed in this undertaking, who, besides a delicate taste and a quick apprehension, possesses an accurate knowledge of the internal fabric, the operations of the understanding, the workings of the passions, and the various species of sentiment, which discriminate vice and virtue. However painful this inward search or enquiry may appear, it becomes, in some measure, requisite to those, who would describe with success the obvious and outward appearances of life and manners. The anatomist presents to the eye the most hideous and disagreeable objects; but his science is highly useful to the painter in delineating even a *Venus* or an *Helen*. While the latter employs all the richest colours of his art, and gives his figures the most graceful and engaging airs; he must still carry his attention to the inward structure of the human body, the position of the muscles, the fabric of the bones, and the use and figure of every part or organ. Accuracy is, in every case, advantageous to beauty, and just reasoning to delicate sentiments. In vain would we exalt the one, by depreciating the other.

BESIDES, we may observe, in every art or profession, even those which most concern life or action, that a spirit of accuracy, however acquir'd, carries all of them nearer their perfection, and renders them more subservient to the interests of society. And
tho'

tho' a philosopher may live remote from business and employment, the genius of philosophy, if carefully cultivated by several, must gradually diffuse itself thro' the whole society, and bestow a similar correctness on every art and calling. The politician will acquire greater foresight and subtilty, in the subdividing and ballancing of power; the lawyer more method and finer principles in his reasonings; and the general more regularity in his discipline, and more caution in his plans and operation. The stability of modern governments above the antient, and the accuracy of modern philosophy, have improv'd, and probably will still improve, by similar gradations.

WERE there no advantage to be reap'd from these studies beyond the gratification of an innocent curiosity, yet ought not even this to be despis'd; as being one accession to those few safe and harmless pleasures which are bestow'd on human race. The sweetest and most inoffensive path of life leads thro' the avenues of science and learning; and whoever can either remove any obstructions in this way, or open up any new prospect, ought so far to be esteem'd a benefactor to mankind. And tho' these researches may appear painful and fatiguing, 'tis with some minds as with some bodies, which, being endowed with vigorous and florid health, require severe exercise, and reap a pleasure from what, to the generality of mankind,

kind, may seem burthenfome and laborious. Obscurity, indeed, is painful to the mind as well as to the eye; but to bring light from obscurity, by whatever labour, must needs be delightful and rejoicing.

BUT this obscurity, in the profound and abstract philosophy, is objected to, not only as painful and disagreeable, but as the inevitable source of uncertainty and error. Here indeed lies the justest and most plausible objection against a considerable part of metaphysics, that they are not properly a science, but arise either from the fruitless efforts of human vanity, which would penetrate into subjects utterly inaccessible to the understanding, or from the craft of popular superstitions, which, being unable to defend themselves on fair ground, raise these intangling brambles to cover and protect their weakness. Chac'd from the open country, these robbers fly into the forest, and lie in wait to break in upon every unguarded avenue of the mind, and overwhelm it with religious fears and prejudices. The stoutest antagonist, if he remits his watch a moment, is oppress'd. And many, thro' cowardice and folly, open the gates to the enemies, and willingly receive them with reverence and submission, as their legal sovereigns.

BUT

BUT is this a just cause why philosophers should desist from such researches, and leave superstition still in possession of her retreat? Is it not reasonable to draw a direct contrary conclusion, and perceive the necessity of carrying the war into the most secret recesses of the enemy? In vain do we hope, that men, from frequent disappointments, will at last abandon such airy sciences, and discover the proper province of human reason. For besides, that many persons find too sensible an interest in perpetually recalling such topics; besides this, I say, the motive of blind despair can never reasonably have place in the sciences; since, however unsuccessful former attempts may have prov'd, there is still room to hope, that the industry, good-fortune, or improv'd sagacity of succeeding generations may reach discoveries unknown to former ages. Each adventurous genius will still leap at the arduous prize, and find himself stimulated, rather than discourag'd, by the failures of his predecessors; while he hopes, that the glory of atchieving so hard an adventure is reserved for him alone. The only method of freeing learning, at once, from these abstruse questions, is to enquire seriously into the nature of human understanding, and shew, from an exact analysis of its powers and capacity, that it is, by no means, fitted for such remote and abstruse subjects. We must submit to this fatigue, in order to live at ease ever after: And must

cultivate true metayhyfics with some care, in order to destroy the false and adulterate. Indolence, which, to some persons, affords a safeguard against this deceitful philosophy, is, with others, over-ballanc'd by curiosity ; and despair, which, at some moments, prevails, may give place afterwards to sanguine hopes and expectations. Accurate and just reasoning is the only catholic remedy, fitted for all persons and all dispositions, and is alone able to subvert that abstruse philosophy and metaphysical jargon, which, being mixt up with popular superstition, renders it, in a manner, impenetrable to careless reasoners, and gives it the air of science and wisdom.

BESIDES this advantage of rejecting, after deliberate enquiry, the most uncertain and disagreeable part of learning, there are many positive advantages, which result from an accurate scrutiny into the powers and faculties of human nature. 'Tis remarkable concerning the operations of the mind, that tho' most intimately present to us, yet whenever they become the object of reflection, they seem involv'd in obscurity, nor can the eye readily find those lines and boundaries, which discriminate and distinguish them. The objects are too fine to remain long in the same aspect or situation ; and must be apprehended, in an instant, by a superior subtilty and penetration, deriv'd from nature, and improv'd by habit and reflection. It becomes, therefore,

therefore, no inconsiderable part of science barely to know the different operations of the mind, to separate them from each other, to class them under their proper divisions, and to correct all that seeming disorder, in which they lie involv'd, when made the object of reflection and enquiry. This task of ordering and distinguishing, which has no merit, when perform'd with regard to external bodies, the objects of our senses, rises in its value, when directed towards the operations of the mind, in proportion to the difficulty and labour, which we meet with in performing it. And if we can go no farther than this mental geography or delineation of the distinct parts and powers of the mind, 'tis at least a satisfaction to go so far; and the more contemptible this science may appear (and it is by no means contemptible) the more contemptible still must the ignorance of it appear, in all pretenders to learning and philosophy.

NOR can there remain any suspicion, that this science is uncertain and chimerical; unless we should entertain such a scepticism as is entirely subversive of all speculation, and even action. It cannot be doubted, that the mind is endow'd with several powers and faculties, that these powers are totally distinct from each other, that what is really distinct to the immediate perception may be distinguish'd by reflection; and consequently, that there is a truth and falsehood
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in all propositions on this subject, and a truth and falsehood, which lies not beyond the compass of human understanding. There are many obvious distinctions of this kind, such as those betwixt the will and understanding, the imagination and passions, which fall within the comprehension of every human creature; and the finer and more philosophical distinctions are no less real and certain, tho' more difficult to be comprehended. Some instances, especially late ones, of success in these enquiries, may give us a juster notion of the certainty and solidity of this branch of learning. And shall we esteem it worthy the labour of a philosopher to give us a true system of the planets, and adjust the position and order of those remote bodies; while we affect to overlook those, who, with so much success, delineate and describe the parts of the mind, in which we are so intimately concern'd?

BUT may we not hope, that philosophy, if cultivated with care, and encourag'd by the attention of the public, may carry its researches still farther, and discover, at least in some degree, the secret springs and principles, by which the human mind is actuated in its operations? Astronomers had long contented themselves with proving, from the phænomena, the true motions, order, and magnitude of the heavenly bodies: Till a philosopher, at last, arose, who seems,

from the happiest reasoning, to have also determin'd the laws and forces, by which the revolutions of the planets are govern'd and directed. The like has been perform'd with regard to other parts of nature. And there is no reason to despair of equal success in our enquiries concerning the mental powers and oeconomy, if prosecuted with equal capacity and caution. 'Tis probable, that one operation and principle of the mind depends on another ; which, again, may be resolv'd into one more general and universal : And how far these researches may possibly be carry'd, 'twill be difficult for us, before, or even after, a careful trial, exactly to determine. This is certain, that attempts of this kind are every day made even by those who philosophize the most negligently ; and nothing can be more requisite than to enter upon the enterprize with thorough care and attention ; that, if it lie within the compass of human understanding, it may at last be happily atchiev'd ; if not, it may, however, be rejected with some confidence and security. This last conclusion, surely, is not desirable, nor ought it to be embrac'd too rashly. For how much must we diminish from the beauty and value of this species of philosophy, upon such a supposition ? Moralists have hitherto been accusom'd, when they consider'd the vast multitude and diversity of actions that excite our approbation or dislike, to search for some common principle, on which this variety

riety of sentiments might depend. And tho' they have sometimes carry'd the matter too far, by their passion for some one general principle ; it must, however, be confess'd, that they are excusable, in expecting to find some general principles, into which all the vices and virtues were justly to be resolv'd. The like has been the endeavour of critics, logicians, and even politicians : Nor have their attempts been altogether unsuccessful ; tho' perhaps longer time, greater accuracy, and more ardent application may bring these sciences still nearer their perfection. To throw up at once all pretensions of this kind may justly be esteem'd more rash, precipitate, and dogmatical, than even the boldest and most affirmative philosophy, which has ever attempted to impose its crude dictates and principles on mankind.

WHAT tho' these reasonings concerning human nature seem abstract, and of difficult comprehension ? This affords no presumption of their falshood. On the contrary, it seems impossible, that what has hitherto escap'd so many wise and profound philosophers can be very obvious and easy. And whatever pains these researches may cost us, we may think ourselves sufficiently rewarded, not only in point of profit but of pleasure, if, by that means, we can make any addition to our stock of knowlege, in subjects of such unspeakable importance.

BUT

BUT as, after all, the abstractness of these speculations is no recommendation, but rather a disadvantage to them, and as this difficulty may perhaps be surmounted by care and art, and one avoiding all unnecessary detail, we have, in the following essays, attempted to throw some light upon subjects, from which uncertainty has hitherto debar'd the wise, and obscurity the ignorant. Happy, if we can unite the boundaries of the different species of philosophy, by reconciling profound enquiry with clearness, and truth with novelty ! And still more happy, if, reasoning in this easy manner, we can undermine the foundations of an abstruse philosophy, which seems to have serv'd hitherto only as a shelter to superstition and a cover to absurdity and error !



ESSAY II.

Of the ORIGIN *of* IDEAS.

EVERY one will readily allow, that there is a considerable difference betwixt the perceptions of the mind, when a man feels the pain of excessive heat, or the pleasure of moderate warmth, and when he afterwards recalls to his memory this sensation, or anticipates it by his imagination. These faculties may mimic or copy the perceptions of the senses; but they never can reach entirely the force and vivacity of the original sentiment. The utmost we say of them, even when they operate with greatest vigour, is, that they represent their object in so lively a manner, that we could *almost* say we feel or see it: But except the mind be disorder'd by disease or madness, they never can arrive at such a pitch of vivacity as to render these perceptions altogether undistinguishable. All the colours of poetry, however splendid, can never paint natural objects in such a manner as to make the description to be taken for a real landscape. The

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most lively thought is still inferior to the dullest sensation.

WE may observe a like distinction to run thro' all the other perceptions of the mind. A man, in a fit of anger, is actuated in a very different manner from one who only thinks of that emotion. If you tell me, that any person is in love, I easily understand your meaning, and form a just conception of his situation; but never can mistake that conception for the real disorders and agitations of the passion. When we reflect on our past sentiments and affections, our thought is a faithful mirror, and copies its objects truly; but the colours it employs are faint and dull, in comparison of those in which our original perceptions were cloth'd. It requires no nice discernment nor metaphysical head to mark the distinction betwixt them.

HERE therefore we may divide all the perceptions of the mind into two classes or species, which are distinguish'd by their different degrees of force and vivacity. The less forcible and lively are commonly denominated THOUGHTS or IDEAS. The other species want a name in our language, and in most others; I suppose, because it was not requisite for any, but philosophical purposes, to rank them under a general term or appellation. Let us, therefore, use a little freedom, and call them IMPRESSIONS, employ-
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ing that word in a sense somewhat different from the usual. By the term *impression*, then, we mean all our more lively perceptions, when we hear, or see, or feel, or love, or hate, or desire, or will. And impressions are distinguish'd from ideas, which are the less lively perceptions of which we are conscious, when we reflect on any of those sensations or movements above mention'd.

Nothing, at first view, may seem more unbounded than the thought of man, which not only escapes all human power and authority, but is not even restrain'd within the limits of nature and reality. To form monsters, and join incongruous shapes and appearances, costs it no more trouble than to conceive the most natural and familiar objects. And while the body is confin'd to one planet, along which it creeps with pain and difficulty; the thought can in an instant transport us into the most distant regions of the universe; or even beyond the universe, into the unbounded chaos, where nature is suppos'd to lie in total confusion. What never was seen, nor heard of, may yet be conceiv'd; nor is any thing beyond the power of thought, except what implies an absolute contradiction.

BUT tho' thought seems to possess this unbounded liberty, we shall find, upon a nearer examination, that it is really confin'd within very narrow limits,
and

and that all this creative power of the mind amounts to no more than the compounding, transposing, augmenting, or diminishing the materials afforded us by the senses and experience. When we think of a golden mountain, we only join two consistent ideas, *gold*, and *mountain*, with which we were formerly acquainted. A virtuous horse we can conceive; because, from our own feeling, we can conceive virtue, and this we may unite to the figure and shape of a horse, which is an animal familiar to us. In short all the materials of thinking are deriv'd either from our outward or inward sentiment: The mixture and composition of these belongs alone to the mind and will. Or, to express myself in philosophical language, all our ideas or more feeble perceptions are copies of our impressions or more lively ones.

To prove this, the two following arguments will, I hope, be sufficient. First, When we analyse our thoughts or ideas, however compounded or sublime, we always find, that they resolve themselves into such simple ideas as were copy'd from a precedent feeling or sentiment. Even those ideas, which, at first view, seem the most wide of this origin, are found, upon a narrower scrutiny, to be deriv'd from it. The idea of God, as meaning an infinitely intelligent, wise, and good Being, arises from reflecting on the operations of our own mind, and augmenting, without limit,

mit, those qualities of goodness and wisdom. We may prosecute this enquiry to what length we please; where we shall always find, that every idea we examine is copy'd from a similar impression. Those who would assert, that this position is not absolutely universal and without exception, have only one, and that an easy method of refuting it, by producing that idea, which, in their opinion, is not deriv'd from this source. It will then be incumbent on us, if we would maintain our doctrine, to produce the impression or lively perception, which corresponds to it.

SECONDLY. If it happen, from a defect of the organ, that a man is not susceptible of any species of sensation, we always find, that he is as little susceptible of the correspondent ideas. A blind man can form no notion of colours; a deaf man of sounds. Restore either of them that sense, in which he is deficient; by opening this new inlet for his sensations, you also open an inlet for the ideas, and he finds no difficulty of conceiving these objects. The case is the same, if the object, proper for exciting any sensation, has never been applied to the organ. A *Laplander* or *Negro* has no notion of the relish of wine. And tho' there are few or no instances of a like deficiency in the mind, where a person has never felt or is altogether incapable of a sentiment or passion, that belongs to his species; yet we find the same observa-
tion

tion to take place in a lesser degree. A man of mild manners can form no notion of inveterate revenge or cruelty; nor can a selfish heart easily conceive the heights of friendship and generosity. 'Tis readily allow'd, that other beings may possess many senses, of which we can have no conception; because the ideas of them have never been introduc'd to us in the only manner by which an idea can have access to the mind, *viz.* by the actual feeling and sensation.

THERE is, however, one contradictory phenomenon, which may prove, that 'tis not absolutely impossible for ideas to go before their correspondent impressions. I believe it will readily be allow'd, that the several distinct ideas of colours, which enter by the eyes, or those of sounds, which are convey'd by the hearing, are really different from each other; tho', at the same time, resembling. Now if this be true of different colours, it must be no less so, of the different shades of the same colour; and each shade produces a distinct idea, independent of the rest. For if this should be deny'd, 'tis possible, by the continual gradation of shades, to run a colour insensibly into what is most remote from it; and if you will not allow any of the means to be different, you cannot, without absurdity, deny the extremes to be the same. Suppose, therefore, a person to have enjoy'd his sight for thirty years, and to have become perfectly well acquainted

[The following text is extremely faint and largely illegible. It appears to be a multi-paragraph document, possibly a letter or a report, discussing various topics. The text is too blurry to transcribe accurately.]

These findings are important in that they show that the brain is not a passive receiver of information, but an active participant in the process of perception. The brain's role is to interpret the information it receives, and this interpretation is influenced by the brain's previous experiences and expectations. This is why we often see things differently when we are in a different mood or when we are expecting something to happen. The brain's ability to interpret information is what makes perception so complex and so interesting.

mind has but a slender hold of them : They are apt to be confounded with other resembling ideas : And when we have often employ'd any term, tho' without a distinct meaning, we are apt to imagine that it has a determinate idea, annex'd to it. On the contrary, all impressions, that is, all sensations, either outward or inward, are strong and sensible : The limits betwixt them are more exactly determin'd : Nor is it easy to fall into any error or mistake with regard to them. When we entertain therefore any suspicion, that a philosophical term is employ'd without any meaning or idea (as is but too frequent) we need but enquire, *from what impression is that suppos'd idea deriv'd?* And if it be impossible to assign any, this will serve to confirm our suspicion. By bringing ideas into so clear a light, we may reasonably hope to remove all dispute, which may arise, concerning their nature and reality *.

* 'Tis probable, that no more was meant by those, who deny'd innate ideas, than that all ideas were copies of our impressions ; tho' it must be confess'd, that the terms which they employ'd were not chosen with such caution, nor so exactly defin'd as to prevent all mistakes about their doctrine. For what is meant by *innate* ? If innate be equivalent to natural, then all the perceptions and ideas of the mind must be allow'd to be innate or natural, in whatever sense we take the latter word, whether in opposition to what is uncommon, artificial, or miraculous. If by innate be meant, contemporary to our birth, the dispute seems to be frivolous ; nor is it worth while to enquire at what time thinking begins, whether before, at, or after our birth. Again, the word, *idea*, seems to be commonly taken in a very loose sense,

sense, even by Mr. *Locke* himself, as standing for any of our perceptions, our sensations and passions, as well as thoughts. Now in this sense, I should desire to know, what can be meant by asserting, that self-love, or resentment of injuries, or the passion betwixt the sexes is not innate?

But admitting these terms, *impressions* and *ideas*, in the sense above explain'd, and understanding by *innate* what is original or copy'd from no precedent perception, then may we assert, that all our impressions are innate, and our ideas not innate.

To be ingenuous, I must own it to be my opinion, that Mr. *Locke* was betray'd into this question by the schoolmen, who making use of undefin'd terms, draw out their disputes to a tedious length, without ever touching the point in question. A like ambiguity and circumlocution seem to run thro' all that great philosopher's reasonings on this subject.



ESSAY III.

Of the ASSOCIATION of IDEAS.

TIS evident, that there is a principle of connexion betwixt the different thoughts or ideas of the mind, and that in their appearance to the memory or imagination, they introduce each other with a certain degree of method and regularity. In our more serious thinking or discourse, this is so observable, that any particular thought, which breaks in upon this regular tract or chain of ideas, is immediately remark'd and rejected. And even in our wildest and most wandering reveries, nay in our very dreams, we shall find, if we reflect, that the imagination ran not altogether at adventures, but that there was still a connexion upheld among the different ideas, which succeeded each other. Were the loosest and freest conversation to be transcrib'd, there would immediately be observ'd something, which connected it in all its transitions. Or where this is wanting, the person, who broke the thread of discourse, might

still inform you, that there had secretly revolv'd in his mind a succession of thought, which had gradually led him away from the subject of conversation. Amongst the languages of different nations, even where we cannot suspect the least connexion or communication, 'tis found, that the words, expressive of ideas, the most compounded, do yet nearly correspond to each other : A certain proof, that the simple ideas, comprehended in the compound ones, were bound together by some universal principle, which had an equal influence on all mankind.

Tho' it be too obvious to escape observation, that different ideas are connected together ; I do not find, that any philosopher has attempted to enumerate or class all the principles of association ; a subject, however, that seems very worthy of curiosity. To me, there appear to be only three principles of connection among ideas, *viz. Resemblance, Contiguity in time or place, and Cause or Effect.*

THAT these principles serve to connect ideas will not, I believe, be much doubted. A picture naturally leads our thoughts to the original * : The mention of one apartment in a building naturally introduces an enquiry or discourse concerning the others † : And if,

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* Resemblance.

† Contiguity.

we think of a wound, we can scarce forbear reflecting on the pain, which follows it *. But that this enumeration is complete, and that there are no other principles of association, except these, may be difficult to prove to the satisfaction of the reader, or even to a man's own satisfaction. All we can do, in such cases, is to run over several instances, and examine carefully the principle, which binds the different thoughts to each other, never stopping till we render the principle as general as possible. The more instances we examine, and the more care we employ, the more assurance shall we acquire, that the enumeration, which we form from the whole, is complete and entire. Instead of entering into a detail of this kind, which would lead us into many useless subtilties, we shall consider some of the effects of this connexion upon the passions and imagination; where we may open a field of speculation more entertaining, and perhaps more instructive, than the other.

As man is a reasonable being, and is continually in pursuit of happiness, which he hopes to attain by the gratification of some passion or affection, he seldom acts or speaks or thinks without a purpose and intention. He has still some object in view; and however improper the means may sometimes be,

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which

* Cause and Effect.

which he chuses for the attainment of his end, he never loses view of an end, nor will he so much as throw away his thoughts or reflections, where he hopes not to reap any satisfaction from them.

IN all compositions of genius, therefore, 'tis requisite that the writer have some plan or object; and tho' he may be hurry'd from this plan by the vehemence of thought, as in an ode, or drop it carelessly, as in an epistle or essay, there must appear some aim or intention, in his first setting out, if not in the composition of the whole work. A production without a design would resemble more the ravings of a madman, than the sober efforts of genius and learning.

As this rule admits of no exception, it follows, that in narrative compositions, the events or actions, which the writer relates, must be connected together, by some bond or tie: They must be related to each other in the imagination, and form a kind of *Unity*, which may bring them under one plan or view, and which may be the object or end of the writer in his first undertaking.

THIS connecting principle among the several events, which form the subject of a poem or history, may be very different, according to the different de-

signs of the poet or historian. *Ovid* has form'd his plan upon the connecting principle of resemblance. Every fabulous transformation, produc'd by the miraculous power of the gods, falls within the compass of his work. There needs but this one circumstance in any event to bring it under his original plan or intention.

AN annalist or historian, who should undertake to write the history of *Europe* during any century, would be influenc'd by the connexion of contiguity in time and place. All events, which happen in that portion of space, and period of time, are comprehended in his design, tho' in other respects different and unconnected. They have still a species of unity, amidst all their diversity.

BUT the most usual species of connexion among the different events, which enter into any narrative composition, is that of cause and effect ; while the historian traces the series of actions according to their natural order, remounts to their secret springs and principles, and delineates their most remote consequences. He chuses for his subject a certain portion of that great chain of events, which compose the history of mankind : Each link in this chain he endeavours to touch in his narration : Sometimes, unavoidable ignorance renders all his attempts fruitless.

Sometimes, he supplies by conjecture what is wanting in knowledge : And always, he is sensible, that the more unbroken the chain is, which he presents to his readers, the more perfect is his production. He sees, that the knowledge of causes is not only the most satisfactory ; this relation or connexion being the strongest of all others ; but also the most instructive ; since it is by this knowledge alone, we are enabled to controul events, and govern futurity.

HERE therefore we may attain some notion of that *Unity of Action*, about which all critics, after *Aristotle*, have talk'd so much : Perhaps, to little purpose, while they directed not their taste or sentiment by the accuracy of philosophy. It appears, that in all productions, as well as in the epic and tragic, there is a certain unity requir'd, and that, on no occasion, can our thoughts be allow'd to run at adventures, if we would produce a work, which will give any lasting entertainment to mankind. It appears also, that even a biographer, who should write the life of *Achilles*, would connect the events, by shewing their mutual dependance and relation, as much as a poet, who should make the anger of that hero, the subject of his narration *. Nor only in any limited portion of

* Contrary to *Aristotle*, Μυθεῖ δ' ἴσον αἶς, ὅχι δὲ πᾶσι
τινὲς οἰοῖται, ἵνα περὶ θ' ἴνῃ ᾗ. Πολλὰ γὰρ, καὶ ἀπείρα τῶν
γίνεσθαι συμβαίνει, ἐξ ὧν ἴνῃαι ἔστιν ἴνῃ. Οὕτω δὲ καὶ περὶ αὐτοῦ
ἑνὸς πολλὰ ἴσιν, ἐξ ὧν μία ὑδμήσια γίνεσθαι περὶ αὐτοῦ, &c. &c. &c.

of life, a man's actions have a dependance on each other, but also during the whole period of his duration, from the cradle to the grave ; nor is it possible to strike off one link, however minute, in this regular chain, without affecting the whole series of events, which follow. The unity of action, therefore, which is to be found in biography or history, differs from that of epic poetry, not in kind, but in degree. In epic poetry, the connexion among the events is more close and sensible : The narration is not carry'd on thro' such a length of time : And the actors hasten to some remarkable period, which satisfies the curiosity of the reader. This conduct of the epic poet depends on that particular situation of the *Imagination* and of the *Passions*, which is suppos'd in that production. The imagination, both of writer and reader, is more enliven'd, and the passions more enflam'd than in history, biography, or any species of narration, which confine themselves to strict truth and reality. Let us consider the effect of these two circumstances, an enliven'd imagination and enflam'd passions, circumstances, which belong to poetry, especially the epic kind, above any other species of composition ; and let us examine the reason why they require a stricter and closer unity in the fable.

FIRST. All poetry, being a species of painting, approaches us nearer to the objects than any other species

species of narration, throws a stronger light upon them, and delineates more distinctly those minute circumstances, which, tho' to the historian they seem superfluous, serve mightily to enliven the imagery, and gratify the fancy. If it be not necessary, as in the *Iliad*, to inform us each time the hero buckles his shoes, and ties his garters, 'twill be requisite, perhaps, to enter into a greater detail than in the *Henriade*; where the events are run over with such rapidity, that we scarce have leisure to become acquainted with the scene or action. Were a poet, therefore, to comprehend in his subject any great compass of time or series of events, and trace up the death of *Hector* to its remote causes, in the rape of *Helen*, or the judgment of *Paris*, he must draw out his poem to an immeasurable length, in order to fill this large canvas with just painting and imagery. The reader's imagination, enflam'd with such a series of poetical descriptions, and his passions, agitated by a continual sympathy with the actors, must flag long before the period of the narration, and must sink into lassitude and disgust, from the repeated violence of the same movements.

SECONDLY.. That an epic poet must not trace the causes to any great distance, will farther appear, if we consider another reason, which is drawn from a property of the passions still more remarkable and sin-

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gular. 'Tis evident, that, in a just composition, all the affections, excited by the different events, describ'd and represented, add mutual force to each other; and that, while the heroes are all engag'd in one common scene, and each action is strongly connected with the whole, the concern is continually awake, and the passions make an easy transition from one object to another. The strong connection of the events, as it facilitates the passage of the thought or imagination from one to another, facilitates also the transfusion of the passions, and preserves the affections still in the same channel and direction. Our sympathy and concern for *Eve* prepares the way for a like sympathy with *Adam*: The affection is preserv'd almost entire in the transition; and the mind seizes immediately the new object as strongly related to that which formerly engag'd its attention. But were the poet to make a total digression from his subject, and introduce a new actor, no way connected with the personages, the imagination, feeling a breach in the transition, would enter coldly into the new scene; would kindle by slow degrees; and in returning to the main subject of the poem, would pass, as it were, upon foreign ground, and have its concern to excite anew, in order to take party with the principal actors. The same inconvenience follows in a less degree, where the poet traces his events to too great a distance, and binds together actions, which,

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giving the most distinct events and causes.
The writer's journey is immediately
The paper follows with regularity, and i
the character is precise
the most of which is the most valuable of the
the most valuable from the beginning
to the end

The writer's style is dramatic, for
the writer's journey is a regular, continuous
narrative, and the character is
that the writer's journey is the most
the writer's journey must not be diverted by
other, distant and separate from the rest.
The writer's journey, and prevents
communication of the several emotions, by wi

personages, no way related to the former ; to find so sensible a breach or vacuity in the course of the passions, by means of this breach in the connexion of ideas ; and instead of carrying the sympathy of one scene into the following, to be oblig'd, every moment, to excite a new concern, and take party in a new scene of action ?

BUT tho' this rule of unity of action be common to dramatic and epic poetry ; we may still observe a difference betwixt them, which may, perhaps, deserve our attention. In both these species of composition, 'tis requisite that the action be one and simple, in order to preserve the concern or sympathy entire and undiverted : But in epic or narrative poetry, this rule is also establish'd upon another foundation, *viz.* the necessity, that is incumbent on every writer, to form some plan or design, before he enter on any discourse or narration, and to comprehend his subject in some general aspect or united view, which may be the constant object of his attention. As the author is entirely lost in dramatic compositions, and the spectator supposes himself to be really present at the actions represented ; this reason has no place with regard to the stage ; but any dialogue or conversation may be introduc'd, which, without improbability, might have pass'd in that determinate portion of space, represented by the theatre. Hence in all

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our *English* comedies, even those of *Congreve*, the unity of action is never strictly observ'd ; but the poet thinks it sufficient, if his personages be any way related to each other, by blood, or by living in the same family ; and he afterwards introduces them in particular scenes, where they display their humours and characters, without much forwarding the main action. The double plots of *Terence* are licences of the same kind ; but in a less degree. And tho' this conduct be not perfectly regular, it is not wholly unsuitable to the nature of comedy, where the movements and passions are not rais'd to such a height as in tragedy ; at the same time, that the fiction or representation palliates, in some measure, such licences. In a narrative poem, the first proposition or design confines the author to one subject ; and any digressions of this nature would, at first view, be rejected, as absurd and monstrous. Neither *Beccatt*, *la Fontaine*, nor any author of that kind, tho' pleasantries be their chief object, have ever indulg'd them.

To return to the comparison of history and epic poetry, we may conclude, from the foregoing reasonings, that as a certain unity is requisite in all productions, it cannot be wanting to history more than to any other ; that in history, the connexion among the several events, which unites them into
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one body, is the relation of cause and effect, the same which takes place in epic poetry ; and that in the latter composition, this connexion is only requir'd to be closer and more sensible, on account of the lively imagination and strong passions, which must be touch'd by the poet in his narration. The *Peloponnesian* war is a proper subject for history, the siege of *Athens* for an epic poem, and the death of *Alcibiades* for a tragedy.

As the difference, therefore, betwixt history and epic poetry consists only in the degrees of connexion, which bind together those several events, of which their subject is compos'd, 'twill be difficult, if not impossible, by words, to determine exactly the bounds, which separate them from each other. That is a matter of taste more than of reasoning ; and perhaps, this unity may often be discovered in a subject, where, at first view, and from an abstract consideration, we should least expect to find it.

'Tis evident, that *Homer*, in the course of his narration, exceeds the first proposition of his subject ; and that the anger of *Achilles*, which caus'd the death of *Hector*, is not the same with that which produc'd so many ills to the *Greeks*. But the strong connexion betwixt these two movements, the quick
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transition from one to another, the contrasfe * betwixt the effects of concord and discord amongst the princes, and the natural curiosity which we have to see *Achilles* in action, after such long repose ; all these causes carry on the reader, and produce a sufficient unity in the subject.

It may be objected to *Milton*, that he has trac'd up his causes to too great a distance, and that the rebellion of the angels produces the fall of man by a train of events, which is both very long and very casual. Not to mention that the creation of the world, which he has related at length, is no more the cause of that catastrophe, than of the battle of *Pharsalia*, or any other event, that has ever happen'd. But if we consider, on the other hand, that all these events, the rebellion of the angels, the creation of the world, and the fall of man, *resemble* each other, in being miraculous and out of the common course of nature ; that they are suppos'd to be *contiguous* in time ; and that being detach'd from all other events, and being the only original facts, which revelation discovers, they strike the eye at once, and naturally

* Contraste or contrariety is a species of connexion among ideas, which may, perhaps, be consider'd as a species of resemblance. Where two objects are contrary, the one destroys the other, *i. e.* is the cause of his annihilation, and the idea of the annihilation of an object implies the idea of former existence.

naturally recall each other to the thought or imaginations : If we consider all these circumstances, I say, we shall find, that these parts of the action have a sufficient unity to make them be comprehended in one fable or narration. To which we may add, that the rebellion of the angels and the fall of man have a peculiar resemblance as being counterparts to each other, and presenting to the reader, the same moral, of obedience to our creator.

THESE loose hints I have thrown together, in order to excite the curiosity of philosophers, and beget a suspicion at least, if not a full persuasion, that this subject is very copious, and that many operations of the human mind depend on the connexion or association of ideas, which is here explain'd. Particularly, the sympathy betwixt the passions and imagination will, perhaps, appear remarkable ; while we observe that the affections, excited by one object, pass easily to another connected with it ; but transfuse themselves with difficulty, or not at all, along different objects, which have no manner of connexion together. By introducing, into any composition, personages and actions, foreign to each other, an injudicious author loses that communication of emotions, by which alone he can interest the heart, and raise the passions to their proper height and period. The full explanation of this principle and all its consequences would
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lead us into reasonings too profound and too copious for these essays. 'Tis sufficient, at present, to have establish'd this conclusion, that the three connecting principles of all ideas are the relations of *Resemblance*, *Contiguity*, and *Causation*.

ESSAY IV.

SCPTICAL DOUBTS *concerning the OPERATIONS of the UNDERSTANDING.*

PART I.

ALL the objects of human reason or enquiry may naturally be divided into two kinds, *viz.* *Relations of Ideas* and *Matters of Fact*. Of the first kind are the propositions in Geometry, Algebra, and Arithmetic; and in short, every proposition, which is either intuitively or demonstratively certain. *That the square of the hypotenuse is equal to the squares of the two sides*, is a proposition, which expresses a relation betwixt these figures. *That three times five is equal to the half of thirty*, expresses a relation betwixt these numbers. Propositions of this kind are discoverable by the mere operation of thought, without dependance on what is any where existent in the universe. Tho' there never were a true circle or tri-

angle in nature, the truths demonstrated by *Euclid*, would for ever retain their certainty and evidence.

MATTERS of fact, which are the second objects of human reason, are not ascertain'd in the same manner; nor is our evidence of their truth, however great, of a like nature with the foregoing. The contrary of every matter of fact is still possible; because it can never imply a contradiction, and is conceiv'd by the mind with equal distinctness and facility, as if ever so conformable to truth and reality. *That the sun will not rise to-morrow* is no less intelligible a proposition, and implies no more contradiction, than the affirmation, *that it will rise*. We should in vain, therefore, attempt to demonstrate its falshood. Were it demonstratively false, it would imply a contradiction, and could never be distinctly conceiv'd by the mind.

It may, therefore, be a subject, worthy curiosity, to enquire what is the nature of that evidence, which assures us of any real existence and matter of fact beyond the present testimony of our senses, or the records of our memory. This part of philosophy, 'tis observable, has been little cultivated, either by the ancients or moderns; and therefore our doubts and errors, in the prosecution of so important an enquiry, may be the more excusable, while we march thro'

thro' such difficult paths, without any guide or direction. They may even prove useful, by exciting curiosity, and destroying that implicit faith and fecundity, which is the bane of all reasoning and free enquiry. The discovery of defects in the common philosophy, if any such there be, will not, I presume, be a discouragement, but rather an incitement, as is usual, to attempt something more full and satisfactory, than has yet been propos'd to the public.

ALL reasonings concerning matter of fact seem to be founded in the relation of *Cause* and *Effect*. By means of that relation alone can we go beyond the evidence of our memory and senses. If you were to ask a man, why he believes any matter of fact, which is absent ; for instance, that his friend is in the country, or in *France* ; he would give you a reason ; and this reason would be some other fact ; as a letter receiv'd from him, or the knowlege of his former resolutions and promises. A man, finding a watch or any other machine in a desert island, would conclude, that there had once been men in that island. All our reasonings concerning fact are of the same nature. And here 'tis constantly suppos'd, that there is a connexion between the present fact and that infer'd from it. Were there nothing to bind them together, the inference would be altogether precarious. The hearing of an articulate voice and rational dis-

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course in the dark assures us of the presence of some person : Why ? because these are the effects of the human make and fabric, and closely connected with it. If we anatomize all the other reasonings of this nature, we shall find, that they are founded in the relation of cause and effect, and that this relation is either near or remote, direct or collateral. Heat and light are collateral effects of fire, and the one effect may justly be infer'd from the other.

IF we would satisfy ourselves, therefore, concerning the nature of that evidence, which assures us of all matters of fact, we must enquire how we arrive at the knowledge of cause and effect.

I SHALL venture to affirm, as a general proposition, which admits of no exception, that the knowledge of this relation is not, in any instance, attain'd by reasonings *à priori* ; but arises entirely from experience, when we find, that any particular objects are constantly conjoin'd with each other. Let an object be presented to a man of ever so strong natural reason and abilities ; if that object be entirely new to him, he will not be able, by the most accurate examination of its sensible qualities, to discover any of its causes or effects. *Adam*, tho' his rational faculties be suppos'd, at the very first, entirely perfect, could not have infer'd from the fluidity and transparency

ency of water, that it would suffocate him, or from the light and warmth of fire, that it would consume him. No object ever discovers, by the qualities which appear to the senses, either the causes, which produc'd it, or the effects, which will arise from it; nor can our reason, unassisted by experience, ever draw any inferences concerning real existence and matter of fact.

THIS proposition, *that causes and effects are discoverable, not by reason, but by experience*, will readily be admitted with regard to such objects, as we remember, to have been once altogether unknown to us; since we must be conscious of the utter inability which we then lay under of foretelling what would arise from them. Present two smooth pieces of marble to a man, who has no tincture of natural philosophy; he will never discover, that they will adhere together in such a manner as to require great force to separate them in a direct line, while they make so small resistance to a lateral pressure. Such events, as bear little analogy to the common course of nature, are also readily confess'd to be known only by experience; nor does any man imagine that the explosion of gunpowder, or the attraction of a loadstone could ever be discover'd by arguments *à priori*. In like manner, when an effect is suppos'd to de-

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pend upon an intricate machinery or secret structure of parts, we make no difficulty to attribute a knowledge of it to experience. Who will assert he can give the ultimate reason, why milk or is proper nourishment for a man, not for a lycotyger ?

BUT the same truth may not appear, at first to have the same evidence with regard to those which have become familiar to us from our appearance in the world, which bear a close relation to the whole course of nature, and which are supposed to depend on the simple qualities of matter without any secret structure of parts. We are apt to imagine, that we could discover these effects, by mere operations of our reason, without experience. We fancy, that, were we brought, on a sudden into this world, we could at first have infer'd, that a Billiard-ball would communicate motion to another upon impulse ; and that we needed not to wait for the event, in order to pronounce with certainty concerning it. Such is the influence of custom, that, where it is strongest, it not only conceals our natural ignorance, but even conceals itself ; it seems not to take place, merely because it is in the highest degree.

BUT to convince us, that all the laws of nature and all the operations of bodies, without exception, are known only by experience, the following reflections may, perhaps, suffice. Were any object presented to us, and were we requir'd to pronounce concerning the effect, which will result from it, without consulting past observation ; after what manner, I beseech you, must the mind proceed in this operation ? It must invent or imagine some event, which it ascribes to the object as its effect ; and 'tis plain that this invention must be entirely arbitrary. The mind can never possibly find the effect in the suppos'd cause, by the most accurate scrutiny and examination. For the effect is totally different from the cause, and consequently can never be discover'd in it. Motion in the second Billiard-ball is a quite distinct event from motion in the first ; nor is there any thing in the one to suggest the smallest hint of the other. A stone or piece of metal rais'd into the air, and left without any support, immediately falls : But to consider the matter *à priori* ; is there any thing we discover in this situation, which can beget the idea of a downward, rather than an upward, or any other motion, in the stone or metal ?

AND as the first imagination or invention of a particular effect, in all natural operations, is arbitrary,

where we consult not experience ; so must we also esteem the suppos'd tye or connexion betwixt the cause and effect, which binds them together, and renders it impossible, that any other effect could result from the operation of that cause. When I see, for instance, a Billiard-ball moving in a strait line towards another ; even suppose motion in the second ball should by accident be suggested to me, as the result of their contact or impulse ; may I not conceive, that a hundred different events might as well follow from that cause ? May not both these balls remain at absolute rest ? May not the first ball return in a strait line, or leap off from the second in any line or direction ? All these suppositions are consistent and conceivable. Why then should we give the preference to one, which is no more consistent nor conceivable than the rest ? All our reasonings *à priori* will never be able to shew us any foundation for this preference.

In a word, then, every effect is a distinct event from its cause. It could not, therefore, be discover'd in the cause, and the first invention or conception of it, *à priori*, must be entirely arbitrary. And even after it is suggested, the conjunction of it with the cause must appear equally arbitrary ; since there are always many other effects, which, to reason, must seem fully as consistent and natural. In vain, there-

therefore, shou'd we pretend to determine any single event, or infer any cause or effect, without the assistance of observation and experience.

HENCE we may discover the reason, why no philosopher, who is rational and modest, has ever pretended to assign the ultimate cause of any natural operation, or to show distinctly the action of that power, which produces any single effect in the universe. 'Tis confess'd, that the utmost effort of human reason is, to reduce the principles, productive of natural phænomena, to a greater simplicity, and to resolve the many particular effects into a few general causes, by means of reasonings from analogy, experience, and observation. But as to the causes of these general causes, we should in vain attempt their discovery ; nor shall we ever be able to satisfy ourselves, by any particular explication of them. These ultimate springs and principles are totally shut up from human curiosity and enquiry. Elasticity, gravity, cohesion of parts, communication of motion by impulse ; these are probably the ultimate causes and principles which we shall ever discover in nature ; and we may esteem ourselves sufficiently happy, if, by accurate enquiry and reasoning, we can trace up the particular phænomena to, or near to, these general principles. The most perfect philosophy of the natural kind only staves off our ignorance

a little longer : As perhaps the most perfect philosophy of the moral or metaphysical kind serve to discover larger portions of our ignorance.

the observation of human ignorance and weak the result of all philosophy, and meets us, at turn, in spite of our endeavours to conquer, void it.

Nor is geometry, when taken into the aff of natural philosophy, ever able to remedy the defect, or lead us into the knowledge of ultimate : by all that accuracy of reasoning, for which it is justly celebrated. Every part of mix'd mathematics goes upon the supposition, that certain laws are establish'd by nature in her operations ; and all reasonings are employ'd, either to assist experiment in the discovery of these laws, or to determine their influence in particular instances, where it depends upon any precise degrees of distance and quantity. Thus 'tis a law of motion, discover'd by experiment that the moment or force of any body in motion is in the compound ratio or proportion of its solid contents and its velocity ; and consequently, that a force may remove the greatest obstacle or raise the greatest weight, if by any contrivance or machine we can encrease the velocity of that force, so as to make it an overmatch for its antagonist. Geometry assists us in the application of this law, by giv-

the just dimensions of all the parts and figures, which can enter into any species of machine ; but still the discovery of the law itself is owing merely to experience, and all the abstract reasonings in the world could never lead us one step towards the knowledge of it. When we reason *à priori*, and consider merely any object or cause, as it appears to the mind, independent of all observation, it never could suggest to us the notion of any distinct object, such as its effect ; much less, shew us the inseparable and inviolable connexion betwixt them. A man must be very sagacious, who could discover by reasoning, that crystal is the effect of heat and ice of cold, without being previously acquainted with the operations of these qualities.

P A R T II.

BUT we have not, as yet, attain'd any tolerable satisfaction with regard to the question first propos'd. Each solution still gives rise to a new question as difficult as the foregoing, and leads us on to farther enquiries. When it is ask'd, *What is the nature of all our reasonings concerning matter of fact?* the proper answer seems to be, that they are founded on the relation of cause and effect. When again it is ask'd, *What is the foundation of all our reasonings and conclusions concerning that relation?* it may be reply'd in one word, EXPERIENCE. But if we still carry on

our sifting and examining humour, and ask, *What is the foundation of all our conclusions from experience?* this implies a new question, which may be of more difficult solution and explication. Philosophers, that give themselves airs of superior wisdom and sufficiency, have a hard task, when they encounter persons of inquisitive dispositions, who push them from every corner, to which they retreat, and who are sure at last to bring them to some dangerous dilemma. The best expedient to prevent this confusion is to be modest in our pretensions; and even to discover the difficulty ourselves before it is objected to us. By this means, we may make a kind of merit of our very ignorance.

I SHALL content myself, in this essay, with an easy task, and shall pretend only to give a negative answer to the question here propos'd. I say then, that even after we have experience of the operations of cause and effect, our conclusions from that experience are *not* founded on reasoning or any process of the understanding. This answer we must endeavour, both to explain, and to defend.

It must certainly be allow'd, that nature has kept us at a great distance from all her secrets, and has afforded us only the knowlege of a few superficial qualities of objects, while she conceals from us those
powers

powers and principles, on which the influence of these objects entirely depends. Our senses inform us of the colour, weight, and consistence of bread; but neither senses nor reason ever can inform us of those qualities, which fit it for the nourishment and support of a human body. Sight or feeling conveys an idea of the actual motion of bodies; but as to that wonderful force or power, which would carry on a moving body for ever in a continu'd change of place, and which bodies never lose but by communicating it to others; of this we cannot form the most distant conception. But notwithstanding this ignorance of natural powers * and principles, we always presume, where we see like sensible qualities, that they have like secret powers, and lay our account, that effects, similar to those, which we have experienc'd, will follow from them. If a body of like colour and consistence with that bread, which we have formerly eat, be presented to us, we make no scruple of repeating the experiment, and expect, with certainty, like nourishment and support. Now this is a process of the mind or thought, of which I would willingly know the foundation. 'Tis allow'd on all hands, that there is no known connexion betwixt the sensible qualities and the secret powers; and consequently,

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that

* The word, Power, is here us'd in a loose and popular sense. The more accurate explication of it wou'd give additional evidence to this argument. See Essay vii.

that the mind is not led to form such a conclusion concerning their constant and regular conjunction, by any thing which it knows of their nature. As to *past Experience*, it can be allow'd to give *direct* and *certain* information only of those precise objects, and that precise period of time, which fell under its cognizance : But why this experience should be extended to future times, and to other objects, which, for aught we know, may be only in appearance similar ; this is the main question on which I would insist. The bread, which I formerly eat, nourish'd me ; that is, a body, of such sensible qualities, was, at that time, endow'd with such secret powers : But does it follow, that other bread must also nourish me at another time, and that like sensible qualities must always be attended with like secret powers ? The consequence seems no way necessary. At least, it must be acknowledged, that there is here a consequence drawn by the mind ; that there is a certain step taken ; a process of thought, and an inference, which wants to be explain'd. These two propositions are far from being the same, *I have found that such an object has always been attended with such an effect*, and, *I foresee, that other objects, which are, to appearance, similar, will be attended with similar effects*. I shall allow, if you please, that the one proposition may justly be infer'd from the other : I know in fact, that it always is infer'd. But if you insist, that the inference is made by
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a chain of reasoning, I desire you to produce that reasoning. The connexion betwixt these propositions is not intuitive. There is requir'd a medium, which may enable the mind to draw such an inference, if indeed it be drawn by reasoning and argument. What that medium is, I must confess, passes my comprehension; and 'tis incumbent on those to produce it, who assert, that it really exists, and is the origin of all our conclusions concerning matter of fact.

THIS negative argument must certainly, in process of time, become altogether convincing, if many penetrating and able philosophers shall turn their enquiries this way; and no one be ever able to discover any connecting proposition or intermediate step, which supports the understanding in this conclusion. But as the question is yet new, every reader may not trust so far to his own penetration, as to conclude, because an argument escapes his research and enquiry, that therefore it does not really exist. For this reason it may be requisite to venture upon a more difficult task; and enumerating all the branches of human knowledge, endeavour to shew, that none of them can afford such an argument.

ALL reasonings may be divided into two kinds, *viz.* demonstrative reasonings or those concerning relations of ideas, and moral reasonings or those con-

cerning matter of fact and existence. That there are no demonstrative arguments in the case, seems evident; since it implies no contradiction, that the course of nature may change, and that an object seemingly like those which we have experienc'd, may be attended with different or contrary effects. May I not clearly and distinctly conceive, that a body falling from the clouds, and which, in all other respects, resembles snow, has yet the taste of salt or feeling of fire? Is there any more intelligible proposition than to affirm, that all the trees will flourish in *December* and *January*, and decay in *May* and *June*? Now whatever is intelligible, and can be distinctly conceiv'd, implies no contradiction, and can never be prov'd false by any demonstrative arguments or abstract reasonings *à priori*.

If we be, therefore, engag'd by arguments to put trust in past experience, and make it the standard of our future judgment, these arguments must be probable only, or such as regard matter of fact and real existence, according to the division above mention'd. But that there are no arguments of this kind, must appear, if our explication of that species of reasoning be admitted as solid and satisfactory. We have said, that all arguments concerning existence are founded on the relation of cause and effect; that our knowledge of that relation is deriv'd entirely from expe-

experience, and that all our experimental conclusions proceed upon the supposition, that the future will be conformable to the past. To endeavour, therefore, the proof of this last supposition by probable arguments, or arguments regarding existence, must be evidently going in a circle, and taking that for granted, which is the very point in question.

In reality, all arguments from experience are founded on the similarity, which we discover among natural objects, and by which we are induc'd to expect effects similar to those, which we have found to follow from such objects. And tho' none but a fool or madman will ever pretend to dispute the authority of experience, or to reject that great guide of human life; it may surely be allow'd a philosopher to have so much curiosity at least, as to examine the principle of human nature, which gives this mighty authority to experience, and makes us draw advantage from that similarity, which nature has plac'd among different objects. From causes, which *appear* similar, we expect similar effects. This is the sum of all our experimental conclusions. Now it seems evident, that if this conclusion were form'd by reason, it would be as perfect at first, and upon one instance, as after ever so long a course of experience. But the case is far otherwise. Nothing so like as eggs; yet no one, on account of this apparent similarity,

larity, expects the same taste and relish in all of them. 'Tis only after a long course of uniform experiments in any kind, that we attain a firm reliance and security with regard to a particular event. Now where is that process of reasoning, which from one instance draws a conclusion, so different from that which it infers from a hundred instances, that are no way different from that single instance? This question I propose as much for the sake of information, as with an intention of raising difficulties. I cannot find, I cannot imagine any such reasoning. But I keep my mind still open to instruction, if any one will vouchsafe to bestow it on me.

SHOULD it be said, that from a number of uniform experiments, we *infer* a connexion betwixt the sensible qualities and the secret powers; this, I must confess, seems the same difficulty, couch'd in different terms. The question still recurs, On what process of argument this *inference* is founded? Where is the medium, the interposing ideas, which join propositions so very wide of each other? 'Tis confess'd, that the colour, consistence, and other sensible qualities of bread appear not, of themselves, to have any connexion with the secret powers of nourishment and support. For otherwise we could infer these secret powers from the first appearance of these sensible qualities, without the aid of experience; contrary to

the sentiment of all philosophers, and contrary to plain matter of fact. Here then is our natural state of ignorance with regard to the powers and influence of all objects. How is this remedy'd by experience? It only shews us a number of uniform effects, resulting from certain objects, and teaches us, that those particular objects, at that particular time, were endow'd with such powers and forces. When a new object, endow'd with similar sensible qualities is produc'd, we expect similar powers and forces, and lay our account with a like effect. From a body of like colour and consistence with bread, we look for like nourishment and support. But this surely is a step or progress of the mind, which wants to be explain'd. When a man says, *I have found, in all past instances, such sensible qualities, conjoin'd with such secret powers*: And when he says, *similar sensible qualities will always be conjoin'd with similar secret powers*; he is not guilty of a tautology, nor are these propositions in any respect the same. You say that the one proposition is an inference from another. But you must confess, that the inference is not intuitive; neither is it demonstrative: Of what nature is it then? To say it is experience is begging the question. For all inferences experience suppose, as their foundation, that the future will resemble the past, and that similar powers will be conjoin'd with similar sensible qualities. *Conclusion*, that the course of nature may

may change, and that the past may be no rule for the future, all experience becomes useless, and can give rise to no inference or conclusion. 'Tis impossible, therefore, that any arguments from experience can prove this resemblance of the past to the future; since all these arguments are founded on the supposition of that resemblance. Let the course of things be allow'd hitherto never so regular; that alone, without some new argument or inference, proves not, that, for the future, it will continue so. In vain do you pretend to have learnt the nature of bodies from your past experience. Their secret nature, and consequently, all their effects and influence may change, without any change in their sensible qualities. This happens sometimes, and with regard to some objects: Why may it not happen always, and with regard to all objects? What logic, what process of argument secures you against this supposition? My practice, you say, refutes my doubts. But you mistake the purport of my question. As an agent, I am quite satisfy'd in the point: But as a philosopher, who has some share of curiosity, I will not say scepticism, I want to learn the foundation of this inference. No reading, no enquiry has yet been able to remove my difficulty, or give me satisfaction in a matter of such vast importance. Can I do better than propose the difficulty to the public, even tho', perhaps, I have small hopes of obtaining a solution? We shall at least,

least, by this means, be sensible of our ignorance, if we do not augment our knowlege.

I MUST confess, that a man is guilty of unpardonable arrogance, who concludes, because an argument has escap'd his own investigation and enquiry, that therefore it does not really exist. I must also confess, that tho' all the learned, for several ages, should have employ'd their time in fruitless search upon any subject, it may still, perhaps, be rash to conclude positively, that the subject must, therefore, pass all human comprehension. Even tho' we examine all the sources of our knowlege, and conclude them unfit for such a subject, there may still remain a suspicion, that the enumeration is not compleat, or the examination not accurate. But with regard to the present subject, there are some considerations, which seem to remove all this accusation of arrogance or suspicion of mistake.

'TIS certain, that the most ignorant and stupid peasants, nay infants, nay even brute beasts improve by experience, and learn the qualities of natural objects, by observing the effects, which result from them. When a child has felt the sensation of pain from touching the flame of a candle, he will be careful not to put his hand near any candle; but will expect a similar effect from a cause, which is similar in its sensible qualities and appearance. If you as-

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sert, therefore, that the understanding of the child is led into this conclusion by any process of argument or ratiocination, I may justly require you to produce that argument ; nor have you any pretext to refuse so equitable a demand. You cannot say, that the argument is abstruse, and may possibly escape your search and enquiry ; since you confess, that it is obvious to the capacity of a mere infant. If you hesitate, therefore, a moment, or if, after reflection, you produce any intricate and profound argument, you, in a manner, give up the question, and confess, that it is not reasoning, which engages us to suppose the past resembling the future, and to expect similar effects from causes, which are, to appearance, similar. This is the proposition, which I intended to enforce by the present essay. If I be right, I pretend to have made no mighty discovery. And if I be wrong, I must acknowledge myself to be indeed a very backward scholar ; since I cannot now discover an argument, which, it seems, was perfectly familiar to me, long before I was out of my cradle.

ESSAY V.

SCEPTICAL SOLUTION *of those* DOUBTS.

PART I.

THE passion for philosophy, like that for religion, seems liable to this inconvenience, that, tho' it aims at the correction of our manners and extirpation of our vices, it may only serve, by imprudent management, to foster a predominant inclination, and push the mind, with more determin'd resolution, towards that side, which already *draws* too much, by the byas and propensity of the natural temper. 'Tis certain, that, while we aspire to the magnanimous firmness of the philosophic sage, and endeavour to confine our pleasures altogether within our own minds, we may, at last, render our philosophy, like that of *Epictetus* and other *Stoicks*, only a more refin'd system of selfishness, and reason ourselves out of all virtue, as well as social enjoyment. While we study with attention the vanity of human life, and

turn

a sudden into this world ; he would, indeed, immediately observe a continual succession of objects, as one event following another ; but he would not be able to discover any thing farther. He would not, first, by any reasoning, be able to reach the idea of cause and effect ; since the particular powers, by which all natural operations are perform'd, never appear to the senses ; nor is it reasonable to conclude merely because one event, in one instance, precedes another, that therefore the one is the cause, and the other the effect. Their conjunction may be arbitrary and casual. There may be no reason to infer the existence of the one from the appearance of the other. And in a word, such a person, without more experience, could never employ his conjecture or reasoning concerning any matter of fact, or be assur'd of any thing beyond what was immediately present to his memory and senses.

SUPPOSE again, that he has acquir'd more experience, and has liv'd so long in the world as to have observ'd similar objects or events to be constantly conjoin'd together ; what is the consequence of this experience ? He immediately infers the existence of the one object from the appearance of the other. Yet he has not, by all his experience, acquir'd any idea or knowledge of the secret power, by which the one object produces the other ; nor is it, by any pro-
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and resentment. By flattering no irregular passion, gains few partizans: By opposing so many vices and follies, it raises to itself abundance of enemies, who stigmatize it as libertine, prophane, and irreligious.

NOR need we fear, that this philosophy, while it endeavours to limit our enquiries to common life, should ever undermine the reasonings of common life, and carry its doubts so far as to destroy all action, as well as speculation. Nature will always maintain her rights, and prevail in the end over any abstract reasoning whatsoever. Tho' we should conclude, for instance, as in the foregoing essay, that, in all reasonings from experience, there is a step taken by the mind, which is not supported by any argument or process of the understanding; there is no danger, that these reasonings, on which almost all knowledge depends, will ever be affected by such a discovery. If the mind be not engag'd by argument to make this step, it must be induc'd by some other principle of equal weight and authority; and that principle will preserve its influence as long as human nature remains the same. What that principle is, may well be worth the pains of enquiry.

SUPPOSE a person, tho' endow'd with the strongest faculties of reason and reflection, to be brought on
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and flame, for instance, weight and solidity, we are determin'd by custom alone to expect the one from the appearance of the other. This hypothesis seems even the only one, which explains the difficulty, why we draw, from a thousand instances, an inference, which we are not able to draw from one instance, that is, in no respect, different from them. Reason is incapable of any such variation. The conclusions, which it draws from considering one circle, are the same, which it would form upon surveying all the circles in the universe. But no man, having seen only one body move after being impell'd by another, could infer, that every other body will move after a like impulse. All inferences from experience, therefore, are effects of custom, not of reasoning*.

CUSTOM,

* Nothing is more usual than for writers even on *moral, political, or physical* subjects to distinguish betwixt *reason* and *experience*, and to suppose, that these species of argumentation are entirely different from each other. The former are taken for the mere result of our intellectual faculties, which, by considering *à priori* the nature of things, and examining the effects, that must follow from their operation, establish particular principles of science and philosophy. The latter are suppos'd to be deriv'd entirely from sense and observation, by which we learn what has actually resulted from the operation of particular objects, and are thence able to infer what will, for the future, result from them. Thus, for instance, the limitations and restraints of civil government and a legal constitution may be defended, either from *reason*, which, reflecting on the great frailty and corruption of human nature, teaches, that no man can safely be trusted with unlimited authority; or from *experience* and history, which

CUSTOM, then, is the great guide of human life. 'Tis that principle alone, which renders our experience useful to us, and makes us expect for the future a similar train of events with those which have appear'd in the past. Without the influence of custom, we should be entirely ignorant of every matter of fact, beyond what is immediately present to the memory

inform us of the enormous abuses, that ambition, in every age and country, has been found to make of so imprudent a confidence.

The same distinction betwixt reason and experience is maintain'd in all our deliberations concerning the conduct of life; while the experienc'd statesman, general, physician, or merchant is trusted and follow'd; and the unpractic'd novice, with whatever natural talents endow'd, neglected and despis'd. Tho' it be allow'd, that reason may form very plausible conjectures with regard to the consequences of such a particular conduct in such particular circumstances; 'tis still suppos'd imperfect, without the assistance of experience, which is alone able to give stability and certainty to the maxims, deriv'd from study and reflection.

But notwithstanding that this distinction be thus universally receiv'd, both in the active and speculative scenes of life, I shall not scruple to pronounce, that, in my opinion, it is, at bottom, erroneous, or at least, superficial.

If we examine those arguments, which, in any of the sciences above-mentioned, are suppos'd to be the mere effects of reasoning and reflection, they will all be found to terminate, at last, in some general principle or conclusion, for which we can assign no reason but observation and experience. The only difference betwixt them and those maxims, which are vulgarly esteem'd the result of pure experience, is, that the former cannot be establish'd without some process of thought, and some reflection on what we have observ'd, in order to distinguish its circumstances, and trace its consequences: Whereas in the latter the experienc'd event is exactly and fully similar to that which we infer as the result of

memory and senses. We should never know how to adjust means to ends, or to employ our natural powers in the production of any effect. There would be an end at once of all action, as well as of the chief part of speculation.

BUT here it may be proper to remark, that tho' our conclusions from experience carry us beyond our memory and senses, and assure us of matters of fact,

any particular situation. The history of a *Tiberius* or a *Nero* makes us dread a like tyranny were our monarchs freed from the restraints of laws and senates : But the observation of any fraud or cruelty in private life is sufficient, with the aid of a little thought, to give us the same apprehension ; while it serves as an instance of the general corruption of human nature, and shows us the danger which we must incur by reposing an entire confidence in mankind. In both cases, 'tis experience which is ultimately the foundation of our inference and conclusion.

There is no man so young and unexperienc'd, as not to have form'd, from observation, many general and just maxims concerning human affairs and the conduct of life ; but it must be confess'd, that, when a man comes to put these in practice, he will be extremely liable to error, till time and farther experience, both enlarge these maxims, and teach him their proper use and application. In every situation or incident, there are many particular and seemingly minute circumstances, which the man of greatest talents is, at first, apt to overlook, tho' on them the justness of his conclusions, and consequently, the prudence of his conduct, entirely depend. Not to mention, that, to a young beginner, the general observations and maxims occur not always on the proper occasions, nor can be immediately apply'd with due calmness and distinction. The truth is, an unexperienc'd reasoner could be no reasoner at all, were he absolutely unexperienc'd ; and when we assign that character to any one, we mean it only in a comparative sense, and suppose him possess'd of experience in a smaller and more imperfect degree.

which

which happen'd in the most distant places and most remote ages ; yet some fact must always be present to the senses or memory, from which we may first proceed in drawing these conclusions. A man, who should find in a desert country the remains of pompous buildings, would conclude, that the country had, in antient times, been cultivated by civiliz'd inhabitants ; but did nothing of this nature occur to him, he could never form such an inference. We learn the events of former ages from history ; but then we must peruse the volumes, in which this instruction is contain'd, and thence carry up our inferences from one testimony to another, till we arrive at the eye-witnesses and spectators of these distant events. In a word, if we proceed not upon some fact, present to the memory or senses, our reasonings would be merely hypothetical ; and however the particular links might be connected with each other, the whole chain of inferences would have nothing to support it, nor could we ever, by its means, arrive at the knowledge of any real existence. If I ask, why you believe any particular matter of fact, which you relate, you must tell me some reason ; and this reason will be some other fact, connected with it : But as you cannot proceed after this manner, *in infinitum*, you must at last terminate in some fact, which is present to your memory or senses ; or must allow, that your belief is entirely without foundation.

WHAT then is the conclusion of the whole matter? A simple one; tho', it must be confess'd, pretty remote from the common theories of philosophy. All belief of matter of fact or real existence is deriv'd merely from some object, present to the memory or senses, and a customary conjunction betwixt that and any other object. Or in other words; having found, in many instances, that any two kinds of objects, flame and heat, snow and cold, have always been conjoin'd together; if flame or snow be presented anew to our senses; the mind is carry'd by custom to expect heat or cold, and to *believe*, that such a quality does exist, and will discover itself upon a nearer approach. This belief is the necessary result of placing the mind in such circumstances. 'Tis an operation of the soul, when we are so situated, as unavoidable as to feel the passion of love, when we receive benefits, or hatred, when we meet with injuries. All these operations are a species of natural instincts, which no reasoning or process of the thought and understanding is able, either to produce, or to prevent.

At this point, it would be very allowable for us to stop our philosophical researches. In most questions, we can never make a single step farther; and in all questions, we must terminate here at last, after
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our most restless and curious enquiries. But still our curiosity will be pardonable, perhaps commendable, if it carry us on to still farther researches, and make us examine more accurately the nature of this *belief*, and of the *customary conjunction*, whence it is deriv'd. By this means, we may meet with some explications and analogies, that will give satisfaction; at least to such as love the abstract sciences, and can be entertain'd with speculations, which, however accurate, may still retain a degree of doubt and uncertainty. As to readers of a different taste; the remaining part of this essay is not calculated for them, and the following essays may well be understood, tho' it be neglected.

P A R T II.

THERE is nothing more free than the imagination of man; and tho' it cannot exceed that original stock of ideas, which is furnish'd by the internal and external senses, it has unlimited power of mixing, compounding, separating and dividing these ideas, to all the varieties of fiction and vision. It can feign a train of events, with all the appearance of reality, ascribe to them a particular time and place, conceive them as existent, and paint them out to itself with every circumstance, that belongs to any historical fact, which it believes with the greatest certainty.

Wherein, therefore, consists the difference betwixt such a fiction and belief? It lies not merely in any peculiar idea, which is annex'd to such a conception, as commands our assent, and which is wanting to every known fiction. For as the mind has authority over all its ideas, it could voluntarily annex this particular idea to any fiction, and consequently be able to believe whatever it pleases; contrary to what we find by daily experience. We can, in our conception, join the head of a man to the body of a horse; but it is not in our power to believe, that such an animal has ever really existed.

It follows, therefore, that the difference betwixt *fiction* and *belief* lies in some sentiment or feeling, which is annex'd to the latter, not to the former, and which depends not on the will, nor can be commanded at pleasure. It must be excited by nature, like all other sentiments; and must arise from the particular situation, in which the mind is plac'd at any particular juncture. Whenever any object is presented to the memory or senses, it immediately, by the force of custom, carries the imagination to conceive that object, which is usually conjoin'd to it; and this conception is attended with a feeling or sentiment, different from the loose reveries of the fancy. In this consists the whole nature of belief. For as there is no matter of fact which we believe so firmly,
that

that we cannot conceive the contrary, there would be no difference betwixt the conception assented to, and that which is rejected, were it not for some sentiment, which distinguishes the one from the other. If I see a billiard-ball moving towards another, on a smooth table, I can easily conceive it to stop upon contact. This conception implies no contradiction; but still it feels very differently from that conception, by which I represent to myself the impulse, and the communication of motion from one ball to another.

WERE we to attempt a *definition* of this sentiment, we should, perhaps, find it a very difficult, if not an impossible task; in the same manner as if we should endeavour to define the feeling of cold or passion of anger, to a creature who never had an experience of these sentiments. BELIEF is the true and proper name of this feeling; and no one is ever at a loss to know the meaning of that term; because every man is every moment conscious of the sentiment, represented by it. It may not, however, be improper to attempt a *description* of this sentiment; in hopes we may, by that means, arrive at some analogies, which may afford a more perfect explication of it. I say then, that belief is nothing but a more vivid, lively, forcible, firm, steady conception of an object, than what the imagination alone is ever able to attain. This variety of terms, which may seem

so unphilosophical, is intended only to express that act of the mind, which renders realities, or what is taken for such, more present to us than fictions, causes them to weigh more in the thought, and gives them a superior influence on the passions and imagination. Provided we agree about the thing, 'tis needless to dispute about the terms. The imagination has the command over all its ideas, and can join and mix and vary them, in all the ways possible. It may conceive fictitious objects with all the circumstances of place and time. It may set them, in a manner, before our eyes, in their true colours, just as they might have existed. But as it is impossible, that that faculty of imagination can ever, of itself, reach belief, 'tis evident, that belief consists not in the peculiar nature or order of ideas, but in the manner of their conception, and in their *feeling* to the mind. I confess, that 'tis impossible perfectly to explain this feeling or manner of conception. We may make use of words, which express something near it. But its true and proper name, as we observ'd before, is *belief*; which is a term, that every one sufficiently understands in common life. And in philosophy, we can go no farther than assert, that *belief* is something felt by the mind, which distinguishes the ideas of the judgment from the fictions of the imagination. It gives them more force and influence; makes them appear of greater importance; inforces

inforces them in the mind ; and renders them the governing principle of all our actions. I hear at present, for instance, a person's voice, with whom I am acquainted ; and the sound comes as from the next room. This impression of my senses immediately conveys my thought to the person, along with all the surrounding objects. I paint them out to myself as existing at present, with the same qualities and relations, of which I formerly knew them posselt. These ideas take faster hold of my mind, than ideas of an enchanted castle. They are very different to the feeling, and have a much greater influence of every kind, either to give pleasure or pain, joy or sorrow.

LET us, then, take in the whole compass of this doctrine, and allow, that the sentiment of belief is nothing but a conception of an object more intense and steady than what attends the mere fictions of the imagination, and that this *manner* of conception arises from a customary conjunction of the object with something present to the memory or senses : I believe that it will not be difficult, upon these suppositions, to find other operations of the mind analogous to it, and to trace up these phænomena to principles still more general.

WE have already observ'd, that nature has establish'd connexions among particular ideas, and that no sooner one idea occurs to our thoughts than it introduces its correlative, and carries our attention towards it, by a gentle and insensible movement. These principles of connexion or association we have reduced to three, *viz. Resemblance, Contiguity, and Causation*; which are the only bonds, that unite our thoughts together, and beget that regular train of reflection or discourse, which, in a greater or less degree, takes place amongst all mankind. Now here arises a question, on which the solution of the present difficulty will depend. Does it happen, in all these relations, that, when one of the objects is presented to the senses or memory, the mind is not only carry'd to the conception of the correlative, but reaches a steadier and stronger conception of it than what otherwise it would have been able to attain? This seems to be the case with that belief, which arises from the relation of cause and effect. And if the case be the same with the other relations or principles of association, we may establish this as a general law, which takes place in all the operations of the mind.

WE may, therefore, observe, as the first experiment to our present purpose, that, upon the appearance

ance of the picture of an absent friend, our idea of him is evidently enliven'd by the *resemblance*, and that every passion, which that idea occasions, whether of joy or sorrow; acquires new force and vigour. In producing this effect, there concur both a relation and a present impression. Where the picture bears him no resemblance, or at least was not intended for him, it never so much as conveys our thought to him: And where it is absent, as well as the person; tho' the mind may pass from the thought of the one to that of the other; it feels its idea to be rather weaken'd than enliven'd by that transition. We take a pleasure in viewing the picture of a friend, when 'tis set before us; but when 'tis remov'd, rather chuse to consider him directly, than by reflection in an image, which is equally distant and obscure.

THE ceremonies of the *Roman Catholic* religion may be consider'd as experiments of the same nature. The devotees of that superstition usually plead in excuse of the mummeries, with which they are upbraided, that they feel the good effect of those external motions, and postures, and actions, in enlivening their devotion and quickening their fervour, which otherwise would decay, if directed entirely to distant and immaterial objects. We shadow out the objects of our faith, say they, in sensible types and images, and render them more present to us by the

immediate presence of these types, than 'tis possible for us to do, merely by an intellectual view and contemplation. Sensible objects have always a greater influence on the fancy than any other ; and this influence they readily convey to those ideas, to which they are related, and which they resemble. I shall only infer from these practices, and this reasoning, that the effect of resemblance in enlivening the idea is very common ; and as in every case a resemblance and a present impression must concur, we are abundantly supply'd with experiments to prove the reality of the foregoing principle.

WE may add force to these experiments by others of a different kind, in considering the effects of *contiguity* as well as of *resemblance*. 'Tis certain that distance diminishes the force of every idea, and that upon our approach to any object ; tho' it does not discover itself to our senses ; it operates upon the mind with an influence, which imitates an immediate impression. The thinking on any object readily transports the mind to what is contiguous ; but 'tis only the actual presence of an object, that transports it with a superior vivacity. When I am a few miles from home, whatever relates to it touches me more nearly than when I am two hundred leagues distant ; tho' even at that distance the reflecting on anything in the neighbourhood of my friends or family naturally

Sceptical Solution of these Doubts.

rally produces an idea of them. But as in this latter case, both the objects of the mind are ideas; notwithstanding there is an easy transition betwixt them; that transition alone is not able to give a superior vivacity to any of the ideas, for want of some immediate impression *.

No one can doubt but causation has the same influence as the other two relations of resemblance and contiguity. Superstitious people are fond of the relics of saints and holy men, for the same reason, that they seek after types or images, in order to enliven their devotion, and give them a more intimate and strong conception of those exemplary lives, which they desire to imitate. Now 'tis evident, that

* *Naturae nobis, inquit, datum dicam, an errore quodam, ut, cum ea loca videamus, in quibus memoria dignos viros acceperimus multum esse versatos, magis moveamur, quam si quando eorum ipsorum aut facta audimus aut scriptum aliquod legamus? Velut ego nunc moveor. Venit enim mihi Platonis in mentem, quem acceperimus primum hic disputare solitum: Cujus etiam illi hortuli propinqui non memoriam solum mihi afferunt, sed ipsum videntur in conspectu meo licet ponere. Hic Speusippus, hic Xenocrates, hic ejus auditor Polemo; cujus ipsa illa sessio fuit, quam videamus. Equidem etiam curiam nostram, Hostiliam dico, non hanc novam, quæ mihi minor esse videtur postquam est major, solebam intuens, Scipionem, Catonem, Lælium, nostrum vero in primis arum cogitare. Tanta vis admonitionis est in locis; ut non sine causa ex his memoriæ deducta sit disciplina. CICERO de Finibus. Lib. 5.*

one of the best relicts, which a devotee could procure, would be the handywork of a saint ; and if his cloaths and furniture are ever to be consider'd in this light, 'tis because they were once at his disposal, and were mov'd and affected by him ; in which respect they are to be consider'd as imperfect effects, and as connected with him by a shorter chain of consequences than any of those, by which we learn the reality of his existence.

SUPPOSE, that the son of a friend, who had been long dead or absent, were presented to us ; 'tis evident, that this object would instantly revive its correlative idea, and recal to our thoughts all past intimacies and familiarities in more lively colours than they would otherwise have appear'd to us. This is another phænomenon, which seems to prove the principle above-mention'd.

WE may observe, that in these phænomena the belief of the correlative object is always pre-suppos'd ; without which the relation could have no effect in invivening the idea. The influence of the picture supposes, that we *believe* our friend to have once existed. Contiguity to home can never excite our ideas of home, unless we *believe* that it really exists. Now I assert, that this belief, where it reaches beyond the memory or senses, is of a similar nature,
and

and arises from similar causes, with the transition of thought and vivacity of conception here explain'd. When I throw a piece of dry wood into a fire, my mind is immediately carry'd to conceive, that it augments, not extinguishes the flame. This transition of thought from the cause to the effect proceeds not from reason. It derives its origin altogether from custom and experience. And as it first begins from an object, present to the senses, it renders the idea or conception of flame more strong and lively than any loose, floating reverie of the imagination. That idea arises immediately. The thought moves instantly towards it, and conveys to it all that force of conception, which is deriv'd from the impression present to the senses. When a sword is level'd at my breast, does not the idea of wound and pain strike me more strongly, than when a glass of wine is presented to me, even tho' by accident this idea should occur after the appearance of the latter object? But what is there in this whole matter to cause such a strong conception, except only a present object and customary transition to the idea of another object, which we have been accusom'd to conjoin with the former? This is the whole operation of the mind in all our conclusions concerning matter of fact and existence; and 'tis a satisfaction to find some analogies, by which it may be explain'd. The transition from a
present

present object does in all cases give strength and solidity to the related idea.

HERE is a kind of pre-establiſh'd harmony betwixt the courſe of nature and the ſucceſſion of our ideas ; and tho' the powers and forces, by which the former is govern'd, be wholly unknown to us, yet our thoughts and conceptions have ſtill, we find, gone on in the ſame train with the other works of nature. Cuſtom is that admirable principle, by which this correſpondence has been effected ; ſo neceſſary to the ſubſiſtence of our ſpecies, and the regulation of our conduct, in every circumſtance and occurrence of human life. Had not the preſence of an object inſtantly excited the idea of thoſe objects, commonly conjoin'd with it, all our knowledge muſt have been limited to the narrow ſphere of our memory and ſenſes ; and we ſhould never have been able to adjust means to ends, nor employ our natural powers, either to the producing of good, or avoiding of evil. Thoſe, who delight in the diſcovery and contemplation of *final cauſes*, have here ample ſubject to employ their wonder and admiration.

I SHALL add, for a further confirmation of the foregoing theory, that as this operation of the mind, by which we infer like effects from like cauſes, and *vice verſa*, is ſo eſſential to the ſubſiſtence of all human

MAN

man continues, it is not probable that it could be trusted to the fallacious deductions of our reason, which is slow in its operations; appears not, in any degree, during the first years of infancy; and at best is, in every age and period of human life, extremely liable to error and mistake. 'Tis more conformable to the ordinary wisdom of nature to secure so necessary an act of the mind, by some instinct or mechanical tendency, which may be infallible in its operations, may discover itself at the first appearance of life and thought, and may be independent of all the labour'd deductions of the understanding. As nature has taught us the use of our limbs, without giving us the knowledge of the muscles and nerves, by which they are actuated; so has she implanted in us an instinct, which carries forward the thought in a correspondent course to that which she has establish'd among external objects; tho' we are ignorant of those powers and forces, on which this regular course and succession of objects totally depends.



ESSAY VI.

Of PROBABILITY*.

THO' there be no such thing as *Chance* in the world; our ignorance of the real cause of any event has the same influence on the understanding, and begets a like species of belief or opinion.

THERE is certainly a probability, which arises from a superiority of chances on any side; and according as this superiority encreases, and surpasses the opposite chances, the probability receives a proportionable encrease, and begets still a higher degree of belief or assent to that side, in which we discover the superiority.

* Mr. *Locke* divides all arguments into demonstrative and probable. In this view, we must say, that 'tis only probable all men must die, or that the sun will rise to-morrow. But to conform our language more to common use, we should divide arguments into *demonstrations*, *proofs*, and *probabilities*. By proofs meaning such arguments from experience as leave no room for doubt or opposition.



Of PROBABILITY.

smaller number of views, and recurs less frequently to the mind. If we allow, that belief is nothing but a firmer and stronger conception of an object than what attends the mere fictions of the imagination, this operation may, perhaps, in some measure, be accounted for. The concurrence of these several views or glimpses imprints its idea more strongly on the imagination ; gives it superior force and vigour ; renders its influence on the passions and affections more sensible ; and in a word, begets that reliance or security, which constitutes the nature of belief and opinion.

THE case is the same with the probability of causes as with that of chance. There are some causes, which are entirely uniform and constant in producing a particular effect ; and no instance has ever yet been found of any failure or irregularity in their operation. Fire has always burnt, and water suffocated every human creature : The production of motion by impulse and gravity is an universal law, which has hitherto admitted of no exception. But there are other causes which have been found more irregular and uncertain ; nor has rhubarb prov'd always a purge, or opium a soporific to every one, who has taken these medicines. 'Tis true ; when any cause fails of producing its usual effect, philosophers ascribe not this to any irregularity in nature ; but suppose, that some secret causes, in the particular structure of parts,
have

have prevented the operation. Our reasoning ever, and conclusions concerning the even same as if this principle had no place. Being de by custom to transfer the past to the future, i inferences; where the past has been entirely reg uniform, we expect the event with the great ance, and leave no room for any contrary sup But where different effects have been found from causes, which are to *appearance* exactly all these various effects must occur to the mind ferring the past to the future, and enter into sideration, when we determine the probabili event. Tho' we give the preference to that w been found most usual, and believe that this e exist, we must not overlook the other effects, give each of them a particular weight and a in proportion as we have found it to be mor frequent. 'Tis more probable, in every plac *rope*, that there will be frost sometime in *Janu* that the weather will continue open through whole month; tho' this probability varies a to the different climates, and approaches to a in the more northern kingdoms. Here then evident, that when we transfer the past to the in order to determine the effect, which will refi any cause, we transfer all the different events same proportion as they have appear'd in t and conceive one to have existed a hundred

for instance, another ten times, and another once. As a great number of views do here concur in one event, they fortify and confirm it to the imagination, beget that sentiment which we call *belief*, and give it the preference above its antagonist, which is not supported by an equal number of experiments, and occurs not so frequently to the thought in transferring the past to the future. Let any one try to account for this operation of the mind upon any of the received systems of philosophy, and he will be sensible of the difficulty. For my part, I shall think it sufficient, if the present hints excite the curiosity of philosophers, and make them sensible how extremely defective all common theories are, in treating of such curious and such sublime subjects.



E S S A Y VII.

Of the IDEA *of necessary* CONNEXION.

P A R T I.

THE great advantage of the mathematical sciences above the moral consists in this, that the ideas of the former, being sensible, are always clear and determinate, the smallest distinction betwixt them is immediately perceptible, and the same terms are still expressive of the same ideas, without ambiguity or variation. An oval is never mistaken for a circle, nor an hyperbola for an ellipsis. The isosceles and scalenum are distinguish'd by boundaries more exact than vice and virtue, right and wrong. If any term be defin'd in geometry, the mind readily, of itself, substitutes, on all occasions, the definition for the term defin'd : Or even when no definition is

Vol. II. E employ'd.

employ'd, the object itself may be presented to the senses, and by that means be steadily and clearly apprehended. But the finer sentiments of the mind, the operations of the understanding, the various agitations of the passions, tho' really in themselves distinct, easily escape us, when survey'd by reflection; nor is it in our power to recall the original object, as often as we have occasion to contemplate it. Ambiguity, by this means, is gradually introduc'd into our reasonings. Similar objects are readily taken to be the same. And the conclusion becomes, at last, not a consequence of the premises.

It may, however, affirm, that if we consider these sciences in a proper light, their advantages and disadvantages very nearly compensate each other, and reduce both of them to a state of equality. If the mind with greater facility retains the ideas of geometry clear and determinate, it must carry on a much longer and more intricate chain of reasoning, and compare ideas much wider of each other, in order to reach the abstruse truths of that science. And if moral ideas are apt, without extreme care, to fall into obscurity and confusion, the inquiries are always much shorter in these disquisitions, the intermediate steps, which lead to the conclusion, fewer than in the sciences, which treat of quantity and number. In reality, there is scarce a pro-

proposition of *Euclid* so simple as not to consist of more parts, than are to be found in any moral reasoning, which runs not into chimera and conceit. Where we trace the principles of the human mind thro' a few steps, we may be very well satisfy'd with our progress; if we consider how soon nature throws a bar to all our enquiries concerning causes, and reduces us to an acknowledgement of our ignorance. The chief obstacle, therefore, to our improvement in the moral or metaphysical sciences is the obscurity of the ideas, and ambiguity of the terms. The principal difficulty in the mathematics is the length of inferences and compass of thought, requisite to the forming any conclusion. And perhaps, our progress in natural philosophy is chiefly retarded by the want of proper experiments and phenomena, which often are discover'd by chance, and cannot always be found, when requisite, even by the most diligent and prudent enquiry. As moral philosophy seems hitherto to have received less improvements than either geometry or physics, we may conclude, that, if there be any difference in this respect among these sciences, the difficulties, which obstruct the progress of the former, require superior care and capacity to be surmounted.

THERE are no ideas, which occur in metaphysics, more obscure and uncertain, than those of *power*, *force*, *energy*, or *necessary connexion*, of which it is every

moment necessary for us to treat in all our disquisitions. We shall, therefore, endeavour, in this essay, to fix, if possible, the precise meaning of these terms, and thereby remove some part of that obscurity, which is so much complain'd of in this species of philosophy.

It seems a proposition, which will not admit of much dispute, that all our ideas are nothing but copies of our impressions, or in other words, that 'tis impossible for us to *think* of any thing, which we have not antecedently *felt*, either by our external or internal senses. I have endeavour'd in a former essay * to explain and prove this proposition, and have express'd my hopes, that, by a proper application of it, men may reach a greater clearness and precision in philosophical reasonings, than what *they* have hitherto been ever able to attain. Complex ideas may, perhaps, be well known by definition, which is nothing but an enumeration of those parts or simple ideas, that compose them. But when we have push'd up definitions to the most simple ideas, and find still some ambiguity and obscurity; what resource are we then possess'd of? By what invention can we throw light upon these ideas, and render them altogether precise and determinate to our intellectual

* Essay II.

lectual view? Produce the impressions or original sentiments, from which the ideas are copy'd. These impressions are all strong and sensible. They admit not of ambiguity and obscurity. They are not only plac'd in a full light themselves, but may throw light on their correspondent ideas, which lie in obscurity. And by this means, we may, perhaps, attain a new microscope or species of optics, by which, in the moral sciences, the most minute and most simple ideas may be so enlarg'd as to fall readily under our apprehension, and be equally known with the grossest and most sensible ideas, which can be the object of our enquiry.

To be fully acquainted, therefore, with the idea of power or necessary connexion, let us examine its impression; and in order to find the impression with greater certainty, let us search for it in all the sources, from which it may possibly be deriv'd.

WHEN we look about us towards external objects, and consider the operation of causes, we are never able, in a *single* instance, to discover any power or necessary connexion; any quality, which binds the effect to the cause, and renders the one an infallible consequence of the other. We only find, that the one does actually, in fact, follow the other. The impulse of one billiard-ball is attended with motion

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in the second. This is the whole, that appears to the *outward* senses. The mind feels no sentiment or *inward* impression from this succession of objects : Consequently, there is not in any single, particular instance of cause and effect, any thing which can suggest the idea of power or necessary connexion. .

From the first appearance of an object, we never can conjecture what effect will result from it. But were the power or energy of any cause discoverable by the mind, we could foresee the effect, even without experience, and might, at first, pronounce with certainty concerning it, by the mere dint of thought and reasoning.

In reality, there is no part of matter, that does ever, by its sensible qualities, discover any power or energy, or give us ground to imagine, that it could produce any thing, or be follow'd by any other object, which we could denominate its effect. Solidity, extension, motion ; these qualities are all complet in themselves, and never point out any other event, which may result from them. The scenes of the universe are continually shifting, and one object follows another in an uninterrupted succession ; but the power or force, which actuates the whole machine, is entirely conceal'd from us, and never discovers itself in any of the sensible qualities of body. We know,

that

that, in fact, heat is a constant attendant of flame ; but what is the connexion betwixt them, we have no room so much as to conjecture or imagine. 'Tis impossible, therefore, that the idea of power can be deriv'd from the contemplation of bodies, in single instances of their operation ; because no bodies ever discover any power, which can be the original of this idea *.

SINCE, therefore, external objects, as they appear to the senses, give us no idea of power or necessary connexion, by their operations in particular instances ; let us see, whether this idea be deriv'd from reflection on the operations of our own minds, and be copy'd from any internal impression. It may be said, that we are every moment conscious of power in our own minds, while we feel, that, by the simple command of our will, we can move the organs of our body, or direct the faculties of our minds, in their operation. An act of volition produces motion in our limbs, or raises a new idea in our imagination. This influence of the will we know by consciousness.

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Hence

* Mr. *Locke*, in his chapter of power, says, that finding from experience, that there are several new productions in matter, and concluding that there must somewhere be a power, capable of producing them, we arrive at last by this reasoning at the idea of power. But no reasoning can ever give us a new, original, simple idea ; as this philosopher himself confesses. This, therefore, can never be the original of that idea.

The number of persons employed in the various branches of the service has been increased from 100 to 150. The number of persons employed in the various branches of the service has been increased from 100 to 150.

influence over a material one, that the most refin'd thought is able to actuate the grossest matter? Were we empower'd, by a secret wish, to remove mountains, or controul the planets in their orbit; this extensive authority would not be more extraordinary, nor more beyond our comprehension. But if by consciousness we perceiv'd any power or energy in the will, we must know this power; we must know its connexion with the effect; we must know the secret union of soul and body, and the nature of both these substances; by which the one is able to operate, in so many instances, upon the other.

Secondly, We are not able to move all the organs of the body with a like authority; tho' we cannot assign any other reason, besides experience, for so remarkable a difference betwixt one and the other. Why has the will an influence over the tongue and fingers, and not over the heart or liver? This question would never embarrass us, were we conscious of a power in the former case, and not in the latter. We should, then, perceive, independent of experience, why the authority of will over the organs of the body is circumscrib'd within such particular limits. Being in that case fully acquainted with the power or force, by which it operates, we should also

know, why its influence reaches precisely to such boundaries, and no farther.

A MAN, struck suddenly with a palsy in the leg or arm, or who had newly lost those members, frequently endeavours, at first, to move them, and employ them in their usual offices. Here he is as much conscious of power to command such limbs, as a man in perfect health is conscious of power to actuate any member, which remains in its natural state and condition. But consciousness never deceives. Consequently, neither in the one case nor in the other, are we ever conscious of any power. We learn the influence of our will from experience alone. And experience only teaches us, how one event constantly follows another, without instructing us in the secret connexion, which binds them together, and renders them inseparable.

Thirdly, We learn from anatomy, that the immediate object of power in voluntary motion, is not the member itself, which is mov'd, but certain muscles, and nerves, and animal spirits, and perhaps, something still more minute, and more unknown, thro' which the motion is successively propagated, 'ere it reach the member itself, whose motion is the immediate object of volition. Can there be a more certain proof, that the power, by which this whole operation

ration is perform'd, so far from being directly and fully known by an inward sentiment or consciousness, is, to the last degree, mysterious and unintelligible? Here the mind wills a certain event: Immediately, another event, unknown to ourselves, and totally different from that intended, is produc'd: This event produces another, equally unknown: Till at last, thro' a long succession, the desir'd event is produc'd. But if the original power were felt, it must be known: Were it known, its effect must also be known; since all power is relative to its effect. And *vice versa*, if the effect be not known, the power cannot be known or felt. How, indeed, can we be conscious of a power to move our limbs, when we have no such power; but only that to move certain animal spirits, which, tho' they produce at last the motion of our limbs, yet operate in such a manner as is altogether beyond our comprehension?

We may, therefore, conclude from the whole; I hope, without any temerity, tho' with assurance; that our idea of power is not copy'd from any sentiment or consciousness of power within ourselves, when we give rise to animal motion, or apply our limbs to their proper use and office. That their motion follows the command of the will is a matter of common experience, like other natural events: But the power or energy, by which this is effected,

like that in other natural events, is unknown and inconceivable*.

SHALL we then assert, that we are conscious of a power or energy in our own minds, when, by an act or command of our will, we raise up a new idea, fix the mind to a contemplation of it, turn it on all sides, and at last dismiss it for some other idea, when we think, that we have survey'd it with sufficient accuracy? I believe the same arguments will prove, that even this command of the will gives us no real idea of force or energy.

First, It must be allow'd, that when we know a power, we know that very circumstance in the cause,
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* It may be pretended, that the resistance, which we meet with in bodies, obliging us frequently to exert our force, and call up all our power; this gives us the idea of force, and power. 'Tis this *Nifus* or strong endeavour, of which we are conscious, that is the original impression, from which this idea is copy'd. But, *first*, we attribute power to a vast number of objects, where we never can suppose this resistance or exertion of force to take place: To the supreme Being, who never meets with any resistance; to the mind in its command over its ideas and limbs, in common thinking and motion, where the effect follows immediately upon the will, without any exertion or summoning up of force; to inanimate matter, which is not capable of this sentiment. *Secondly*, This sentiment of an endeavour to overcome resistance has no known connexion with any event: What follows it, we know by experience; but could not know it *a priori*. It must, however, be confessed, that the animal *Nifus*, which we experience, tho' it can afford no accurate, precise idea of power, enters very much into that vulgar, inaccurate idea, which is form'd of it. See p. 122.

by which it is enabled to produce the effect : For these are suppos'd to be synonymous. We must, therefore, know both the cause and effect, and the relation betwixt them. But do we pretend to be acquainted with the nature of the human soul and the nature of an idea, or the aptitude of the one to produce the other ? This is a real creation ; a production of something out of nothing : Which implies a power so great, that it may seem, at first sight, beyond the reach of any being, less than infinite. At least, it must be own'd, that such a power is not felt, nor known, nor even conceivable by the mind. We only feel the event, *viz.* the existence of an idea, consequent to a command of the will : But the manner, by which this operation is perform'd ; the power, by which it is produc'd ; is entirely beyond our comprehension.

Secondly, The command of the mind over itself is limited, as well as its command over the body ; and these limits are not known by reason, or any acquaintance with the nature of the cause and effect ; but only by experience and observation, as in all other natural events and in the operation of external objects. Our authority over our sentiments and passions is much weaker than that over our ideas ; and even the latter authority is circumscrib'd within very narrow bounds. Will any one pretend to assign the ultimate reason of these limits, or show
why

why the power is deficient in one case and not in another ?

Thirdly, This self-command is very different at different times. A man in health possesses more of it, than one languishing with sickness. We are more master of our thoughts in the morning than in the evening: Fasting, than after a full meal. Can we give any reason for these variations, except experience ? Where then is the power, of which we pretend to be conscious ? Is there not here, either in a spiritual, or material substance, or both, some secret mechanism or structure of parts, upon which the effect depends, and which, being altogether unknown to us, renders the power or energy of the will equally unknown and incomprehensible ?

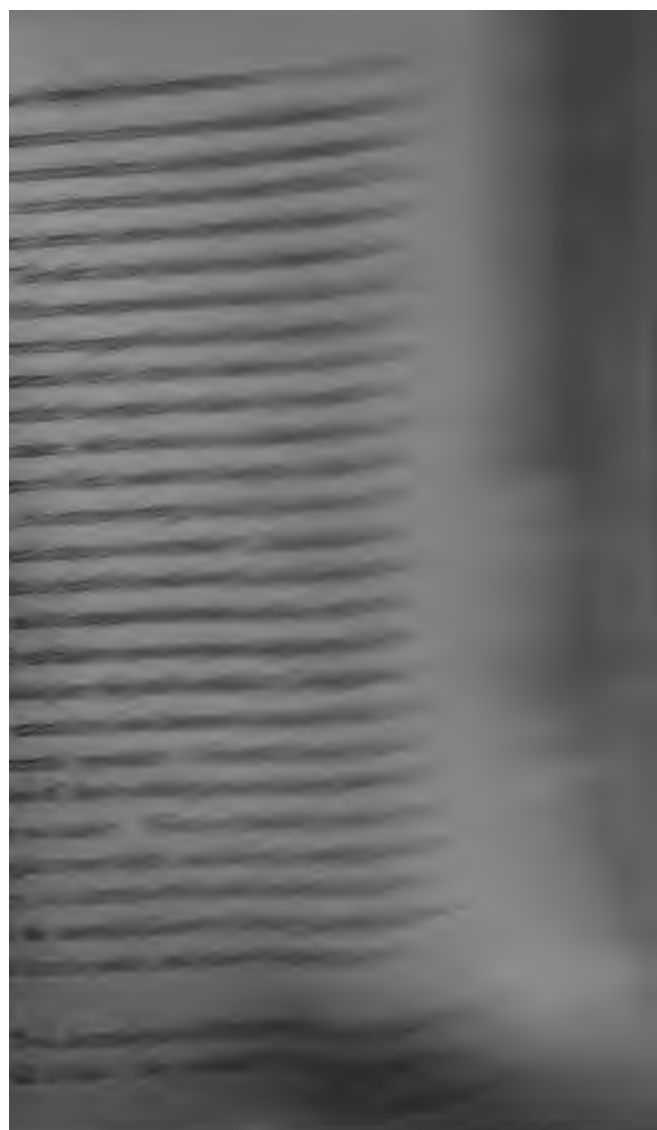
VOLITION is surely an act of the mind, with which we are sufficiently acquainted. Reflect upon it. Consider it on all sides. Do you find any thing in it like this creative power, by which it raises from nothing a new idea, and by a kind of FIAT, imitates the omnipotence of its maker, if I may be allow'd so to speak, who call'd forth into existence all the various scenes of nature ? So far from being conscious of this energy in the will, it requires as certain experience, as that of which we are possessed, to convince us, that such extraordinary effects do ever result from a simple act of volition.

THE generality of mankind never find any difficulty in accounting for the more common and familiar operations of nature ; such as the descent of heavy bodies, the growth of plants, the generation of animals, or the nourishment of bodies by food ; but suppose, that, in all these cases, they perceive the very force and energy of the cause, by which it is connected with its effect, and is for ever infallible in its operation. They acquire, by long habit, such a turn of mind, that, upon the appearance of the cause, they immediately expect with assurance its usual attendant, and hardly conceive it possible, that any other event could result from it. 'Tis only on the discovery of extraordinary phænomena, such as earthquakes, pestilence, and prodigies of any kind, that they find themselves at a loss to assign a proper cause, and to explain the manner, in which the effect is produc'd by it. 'Tis usual for men, in such difficulties, to have recourse to some invisible, intelligent principle (*a*), as the immediate cause of that event, which surprises them, and which, they think, cannot be accounted for from the common powers of nature. But philosophers, who carry their scrutiny a little farther, immediately perceive, that, even in the most familiar events, the energy of the cause is as unintelligible as in the most extraordinary and unusual, and that we only learn by experience the frequent

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CONNECTION of objects, without being able to comprehend any thing like CONNEXION in them. Here then, many philosophers think themselves oblig'd by reason to have recourse, on such occasions, to the same principle, which they never appeal to but in cases, that appear miraculous or supernatural. They acknowledge mind and intelligence to be, not only the ultimate and original of all things, but the immediate and sole cause of every event, which appears in nature. They say that those objects, which are commonly denominated *causes*, are in reality nothing but *occasions*; and that the true and direct principle of every effect is any power or force in nature, but a volition of the supreme Being, who wills, that such particular objects should, for ever, be conjoin'd with each other. Instead of saying, that one billiard-ball moves the other, by a force, which it has deriv'd from the author of nature; 'tis the Deity himself, they say, by a particular volition, moves the second ball, being determin'd to this operation by the impulse of the first ball; in consequence of those general laws, which he has laid down to himself in the government of the universe. But philosophers, who are still in their enquiries, discover, that, as we are totally ignorant of the power, on which the mutual operation of bodies, we are ignorant of that power, on which depends the



CONJUNCTION of objects, without being ever able to comprehend any thing like CONNEXION between them. Here then, many philosophers think themselves oblig'd by reason to have recourse, on such occasions, to the same principle, which the vulgar appeal to but in cases, that appear miraculous or supernatural. They acknowledge mind and intelligence to be, not only the ultimate and original cause of all things, but the immediate and sole cause of every event, which appears in nature. They pretend that those objects, which are commonly denominated *causes*, are in reality nothing but *occasions*; and that the true and direct principle of every effect is any power or force in nature, but a volition of the supreme Being, who wills, that such particular objects should, for ever, be conjoin'd with each other. Instead of saying, that one billiard-ball moves the other, by a force, which it has deriv'd from the author of nature; 'tis the Deity himself, they say, by a particular volition, moves the second ball, being determin'd to this operation by the impulse of the first ball; in consequence of those general laws which he has laid down to himself in the government of the universe. But philosophers, notwithstanding all in their enquiries, discover, that, as we are totally ignorant of the power, on which depends the mutual operation of bodies, we are no less ignorant of that power, on which depends the operation of

on body, or of body on mind ; nor are we able, either from our senses or consciousness, to assign the ultimate principle, in one case more than in the other. The same ignorance, therefore, reduces them to the same conclusion. They assert, that the Deity is the immediate cause of the union betwixt soul and body, and that they are not the organs of sense, which, being agitated by external objects, produce sensations in the mind ; but that 'tis a particular volition of our omnipotent maker, which excites such a sensation, in consequence of such a motion in the organ. In like manner, it is not any energy in the will, that produces local motion in our members : 'Tis God himself, who is pleas'd to second our will, in itself impotent, and to command that motion, which we erroneously attribute to our own power and efficacy. Nor do philosophers stop at this conclusion. They sometimes extend the same inference to the mind itself, in its internal operations. Our mental vision or conception of ideas is nothing but a revelation made to us by our maker. When we voluntarily turn our thoughts to any object, and raise up its image in the fancy ; it is not the will, which creates that idea : 'Tis the universal Creator of all things, who discovers it to the mind, and renders it present to us.

Thus, according to these philosophers, every thing is full of God. Not contented with the principle,
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that nothing exists but by his will, that nothing possesses any power but by his concession: They rob nature, and all created beings of every power, in order to render their dependance on the Deity still more sensible and immediate. They consider not, that by this theory they diminish, instead of magnifying, the grandeur of those attributes, which they affect so much to celebrate. It argues surely more power in the Deity to delegate a certain degree of power to inferior creatures, than to operate every thing by his own immediate volition. It argues more wisdom to contrive at first the fabric of the world with such perfect foresight, that, of itself, and by its proper operation, it may serve all the purposes of providence, than if the great Creator were oblig'd every moment to adjust its parts, and animate by his breath all the wheels of that stupendous machine.

BUT if we would have a more philosophical consideration of this theory, perhaps the two following reflections may suffice.

First, It seems to me, that this theory, of the universal energy and operation of the supreme Being, is too bold ever to carry conviction with it to a man, who is sufficiently appriz'd of the weakness of human reason, and the narrow limits, to which it is confin'd in all its operations. Tho' the chain of arguments,

guments, which conduct to it, were ever so logical, there must arise a strong suspicion, if not an absolute assurance, that it has carry'd us quite beyond the reach of our faculties, when it leads to conclusions so extraordinary, and so remote from common life and experience. We are got into fairy-land, long ere we have reach'd the last steps of our theory ; and *there* we have no reason to trust our common methods of argument, or think that our usual analogies and probabilities have any authority. Our line is too short to fathom such immense abysses. And however we may flatter ourselves, that we are guided in every step, which we take, by a kind of verisimilitude and experience ; we may be assur'd, that this fancy'd experience has no authority when we thus apply it to subjects, that lie entirely out of the sphere of experience. But on this we shall have occasion to touch afterwards *.

Secondly, I cannot perceive any force in the arguments, on which this theory is founded. We are ignorant, 'tis true, of the manner, in which bodies operate on each other : Their force or energy is entirely incomprehensible. But are we not equally ignorant of the manner or force, by which a mind, even the supreme mind, operates either on itself or on body ? Whence, I beseech you, do we acquire
any

any idea of it? We have no sentiment or consciousness of this power in ourselves: We have no idea of the supreme Being but what we learn from reflection on our own faculties. Were our ignorance, therefore, a good reason for rejecting any thing, we should be led into that principle of denying all energy in the supreme Being as much as in the grossest matter. We surely comprehend as little the operations of one as of the other. Is it more difficult to conceive, that motion may arise from impulse, than that it may arise from volition? All we know is our profound ignorance in both cases †.

P A R T

† I need not examine at length the *vis inertiae* which is so much talk'd of in the new philosophy, and which is ascrib'd to matter. We find by experience, that a body at rest, or in motion continues for ever in its present state, till put from it by some new cause: And that a body impell'd takes as much motion from the impelling body as it acquires itself. These are facts. When we call this a *vis inertiae*, we only mark these facts, without pretending to have any idea of the inert power; in the same manner as when we talk of gravity, we mean certain effects, without comprehending that active power. It was never the meaning of sir Isaac Newton to rob second causes of all force or energy; tho' some of his followers have endeavour'd to establish that theory upon his authority. On the contrary that great philosopher had recourse to an ethereal active fluid to explain his universal attraction; tho' he was so cautious and modest as to allow, that it was a mere hypothesis, not to be insisted on, without more experiments. I must confess, that there is something in the fate of opinions a little extraordinary. Des-Cartes insinuated that doctrine of the universal and sole efficacy of the deity, without insisting on it. Malebranche and other Cartesians made it the foundation of all their philosophy. It had, how-

P A R T II.

BUT to hasten to a conclusion of this argument, which is already drawn out to too great a length : We have sought, in vain, for an idea of power or necessary connexion in all the sources, from which we could suppose it to be deriv'd. It appears, that, in single instances of the operation of bodies, we never can, by our utmost scrutiny, discover any thing but one event following another ; without being able to comprehend any force or power, by which the cause operates, or any connexion betwixt it and its suppos'd effect. The same difficulty occurs in contemplating the operations of mind on body ; where we observe the motion of the latter to follow upon the volition of the former ; but are not able to observe nor conceive the tie, which binds together the motion and volition, or the energy, by which the mind produces this effect. The authority of the will over our own faculties and ideas is not a whit more comprehensible : So that upon the whole, there appears not, thro' all nature, any one instance of connexion, which is conceivable by us. All events seem entirely loose and separate. One event follows another ;

however, no authority in *England*. *Locke, Clarke, and Cudworth*, never so much as take notice of it, but supposed all along, that matter has a real, tho' subordinate and deriv'd power. By what means has it become so prevalent among our modern metaphysicians ?

ther; but we never can observe any tie betwixt them. They seem *conjoin'd*, but never *connected*. And as we can have no idea of any thing, which never appear'd to our outward sense or inward sentiment, the necessary conclusion *seems* to be, that we have no idea of connexion or power at all, and that these words are absolutely without any meaning, when employ'd either in philosophical reasonings, or common life.

BUT there still remains one method of avoiding this conclusion, and one source, which we have not yet examin'd. When any natural object or event is presented, 'tis impossible for us, by any sagacity or penetration, to discover, or even conjecture, without experience, what event will result from it, or to carry our foresight beyond that object, which is immediately present to the memory and senses. Even after one instance or experiment, where we have observ'd a particular event to follow upon another, we are not intitled to form a general rule; or foretel what will happen in like cases; it being justly esteem'd an unpardonable temerity to judge of the whole course of nature from one single experiment, however accurate or certain. But when one particular species of event has always, in all instances, been conjoin'd with another, we make no longer any scruple to foretel the one upon the appearance of the

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the other, and to employ that reasoning, which can alone assure us of any matter of fact or existence. We then call the one object, *Cause*; and the other, *Effect*. We suppose, that there is some connexion betwixt them; some power in the one, by which it infallibly produces the other, and operates with the greatest certainty and strongest necessity.

It appears, then, that this idea of a necessary connexion amongst events arises from a number of similar instances, which occur, of the constant conjunction of these events; nor can that idea ever be suggested by any one of these instances, survey'd in all possible lights and positions. But there is nothing in a number of instances, different from every single instance, which is suppos'd to be exactly similar; except only, that after a repetition of similar instances, the mind is carry'd by habit, upon the appearance of one event, to expect its usual attendant, and to believe, that it will exist. This connexion, therefore, which we *feel* in the mind, or customary transition of the imagination from one object to its usual attendant, is the sentiment or impression, from which we form the idea of power or necessary connexion. Nothing farther is in the case. Contemplate the subject on all sides, you will never find any other origin of this idea. This is the sole difference betwixt one instance, from which we never can receive the idea
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of connexion, and a number of similar instances, by which it is suggested. The first time a man saw the communication of motion by impulse, as by the shock of two billiard-balls, he could not pronounce that the one event was *connected*; but only that it was *conjoin'd* with the other. After he has observ'd several instances of this nature, he then pronounces them to be *connected*. What alteration has happen'd to give rise to this new idea of *connexion*? Nothing but that he now *feels* these events to be *connected* in his imagination, and can readily foretel the existence of one from the appearance of the other. When we say, therefore, that one object is connected with another, we mean only, that they have acquir'd a connexion in our thoughts, and give rise to this inference, by which they become proofs of each other's existence. A conclusion, which is somewhat extraordinary; but which seems founded on sufficient evidence. Nor will its evidence be weakned by any general diffidence of the understanding, or sceptical suspicion concerning every conclusion, which is new and extraordinary. No conclusions can be more agreeable to scepticism than such as make discoveries concerning the weakness and narrow limits of human reason and capacity.

And what stronger instance can be produc'd of the surprizing ignorance and weakness of the understanding.

To recapitulate, therefore, the reasonings of this flay : Every idea is copy'd from some preceding impression or sentiment ; and where we cannot find any impression, we may be certain that there is no idea. In all single instances of the operation of bodies or minds, there is nothing that produces any impression, nor consequently can suggest any idea, of power or necessary connexion. But when many uniform instances appear, and the same object is always follow'd by the same event ; we then begin to entertain the notion of cause and connexion. We then *feel* a new sentiment or impression, *viz.* a customary connexion

exists in equal or unequal times ; but by a direct mensuration and comparison.

As to the frequent use of the words, Force, Power, Energy, &c. which every where occur in common conversation, as well as in philosophy ; that is no proof, that we are acquainted, in any instance, with the connecting principle betwixt cause and effect, or can account ultimately for the production of one thing by another. These words, as commonly us'd, have very loose meanings, annex'd to them ; and their ideas are very uncertain and confus'd. No animal can put external bodies in motion without the sentiment of a *Nisus* or endeavour ; and every animal has a sentiment or feeling from the stroke or blow of an external object, that is in motion. These sensations, which are merely animal, and from which we can *a priori* draw no inference, we are apt to transfer to inanimate objects, and to suppose, that they have some such feelings, whenever they transfer or receive motion. With regard to energies, which are exerted, without our annexing to them any idea of communicated motion, we consider only the constant experienc'd conjunction of the events ; and as we *feel* a customary connexion betwixt the ideas, we transfer that feeling to the objects ; as nothing is more usual than to apply to external bodies every internal sensation, which they occasion.

in the thought or imagination betwixt one of its usual attendant ; and this sentiment is the of that idea which we seek for. For as it arises from a number of similar instances, from any single instance ; it must arise from circumstance, in which the number of instance from every individual instance. But this connexion or transition of the imagination is circumstance, in which they differ. In every particular they are alike. The first instance we saw of motion, communicated by the two billiard balls (to return to this obvious ; is exactly similar to any instance that may, at occur to us ; except only, that we could first, *infer* one event from the other ; which enabled to do at present, after so long a uniform experience. I know not, if the reader readily apprehend this reasoning. I am afraid should I multiply words about it, or throw greater variety of lights, it would only become obscure and intricate. In all abstract reasoning there is one point of view, which, if we can hit, we shall go farther towards illustrating the subject, than by all the eloquence and copious examples in the world. This we should endeavour to and reserve the flowers of rhetoric for subjects are more adapted to them.

ESSAY VIII.

Of LIBERTY *and* NECESSITY.

PART I.

It might reasonably be expected, in questions, which have been canvass'd and disputed with great eagerness since the first origin of science and philosophy, that the meaning of all the terms, at first, should have been agreed upon among the disputants; and our enquiries, in the course of two thousand years, been able to pass from words to the true and real subject of the controversy. For how easily may it seem to give exact definitions of the terms employ'd in reasoning, and make these definitions, not the mere sound of words, the object of future scrutiny and examination? But if we consider the matter more narrowly, we shall be apt to draw a quite opposite conclusion. From that circumstance alone, that a controversy has been long kept on foot,

and remains still undecided, we may presume, that there is some ambiguity in the expression, and that the disputants affix different ideas to the terms employ'd in the controversy. For as the faculties of the soul are suppos'd to be naturally alike in every individual ; otherwise nothing could be more fruitless than to reason or dispute together ; 'twere impossible, if men affix the same ideas to their terms, that they could so long form different opinions of the same subject ; especially when they communicate their views, and each party turn themselves on all sides, in search of arguments, which may give them the victory over their antagonists. 'Tis true ; if men attempt the discussion of questions, which lie entirely beyond the reach of human capacity, such as those concerning the origin of worlds, or the oeconomy of the intellectual system or region of spirits, they may long beat the air in their fruitless contests, and never arrive at any determinate conclusion. But if the question regard any subject of common life and experience ; nothing, one would think, could preserve the dispute so long undecided, but some ambiguous expressions, which keep the antagonists still at a distance, and hinder them from grappling with each other.

THIS has been the case in the long disputed question concerning liberty and necessity ; and to so remarkable

markable a degree, that, if I be not much mistaken, we shall find all mankind, both learned and ignorant, to have been always of the same opinion with regard to that subject, and that a few intelligible definitions would immediately have put an end to the whole controversy. - I own, that this dispute has been so much canvass'd on all hands, and has led philosophers into such a labyrinth of obscure sophistry, that 'tis no wonder, if a sensible and polite reader indulge his ease so far as to turn a deaf ear to the proposal of such a question, from which he can expect neither instruction nor entertainment. But the state of the argument here proposed may, perhaps, serve to renew his attention; as it has more novelty, promises, at least, some decision of the controversy, and will not much disturb his ease, by any intricate or obscure reasoning.

I HOPE, therefore, to make appear, that all men have ever agreed in the doctrines both of necessity and of liberty, according to any reasonable sense, which can be put on these expressions; and that the whole controversy has hitherto turn'd merely upon words. We shall begin with examining the doctrine of necessity.

'Tis universally allow'd, that matter, in all its operations, is actuated by a necessary force, and that

every effect is so precisely determin'd by the nature and energy of its cause, that no other effect, in such particular circumstances, could possibly have resulted from the operation of that cause. The degree and direction of every motion is, by the laws of nature, prescrib'd with such exactness, that a living creature may as soon arise from the shock of two bodies, as motion in any other degree or direction, than what is actually produc'd by it. Would we, therefore, form a just and precise idea of *necessity*, we must consider, whence that idea arises, when we apply it to the operation of bodies.

It seems evident, that, if all the scenes of nature were shifted continually in such a manner, that no two events bore any resemblance to each other, but every object was entirely new, without any similitude to whatever had been seen before, we should never, in that case, have attain'd the least idea of necessity, or of a connexion amongst these objects. We might say, upon such a supposition, that one object or event has follow'd another; not that one was produc'd by the other. The relation of cause and effect must be utterly unknown to mankind. Inference and reasoning concerning the operations of nature would, from that moment, be at an end; and the memory and senses remain the only canals, by which the knowledge of any real existence could possibly have
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access to the mind. Our idea, therefore, of necessity and causation arises entirely from that uniformity, observable in the operations of nature ; where similar objects are constantly conjoin'd together, and the mind is determin'd by custom to infer the one from the appearance of the other. These two circumstances form the whole of that necessity, which we ascribe to matter. Beyond the constant *conjunction* of similar objects, and the consequent *inference* from one to the other, we have no notion of any necessity or connexion.

If it appear, therefore, that all mankind have ever allow'd, without any doubt or hesitation, that these two circumstances take place in the voluntary actions of men, and in the operations of the mind ; it must follow, that all mankind have ever agreed in the doctrine of necessity, and that they have hitherto disputed, merely for not understanding each other.

As to the first circumstance, the constant and regular conjunction of similar events ; we may possibly satisfy ourselves by the following considerations. It is universally acknowleg'd, that there is a great uniformity amongst the actions of men, in all nations and ages, and that human nature remains still the same, in its principles and operations. The same motives produce always the same actions : The same

events follow from the same causes. Ambition, avarice, self-love, vanity, friendship, generosity, public spirit; these passions, mix'd in various degrees, and distributed thro' society, have been, from the beginning of the world, and still are, the sources of all the actions and enterprizes, which have ever been observ'd amongst mankind. Would you know the sentiments, inclinations, and course of life of the *Greeks* and *Romans*? Study well the temper and actions of the *French* and *English*. You cannot be much mistaken in transferring to the former ~~most~~ of the observations, which you have made with regard to the latter. Mankind are so much the same, in all times and places, that history informs us of nothing new or strange in this particular. Its chief use is only to discover the constant and universal principles of human nature, by shewing men in all varieties of circumstances and situations, and furnishing us with materials, from which we may form our observations, and become acquainted with the regular springs of human action and behaviour. These records of wars, intrigues, factions, and revolutions, are so many collections of experiments, by which the politician or moral philosopher fixes the principles of his science; in the same manner as the physician or natural philosopher becomes acquainted with the nature of plants, minerals, and other external objects, by the experiments, which he forms concerning them. Nor
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are the earth, water, and other elements, examin'd by *Aristotle*, and *Hippocrates*, more like to those, which at present lie under our observation, than the men, describ'd by *Polybius* and *Tacitus*, are to those who now govern the world.

SHOULD a traveller returning from a far country, bring us an account of men, entirely different from any, with whom we were ever acquainted ; men, who were entirely divested of avarice, ambition, or revenge ; who knew no pleasure but friendship, generosity, and public spirit ; we should immediately, from these circumstances, detect the falshood, and prove him a liar, with the same certainty as if he had stuff'd his narration with stories of centaurs and dragons, miracles and prodigies. And if we would explode any forgery in history, we cannot make use of a more convincing argument, than to prove, that the actions, ascrib'd to any person, are directly contrary to the course of nature, and that no human motives, in such circumstances, could ever induce him to such a conduct. The veracity of *Quintus Curtius* is as suspicious, when he describes the supernatural courage of *Alexander*, by which he was hurry'd on singly to attack multitudes, as when he describes his supernatural force and activity, by which he was able to resist them. So readily and universally do we acknowledge a uniformity in human motives and actions as well as in the operations of body.

Has not likewise the benefit of that experience, which is acquired by long life and a variety of business and company, in order to instruct us in the principles of human nature, and regulate our future conduct as well as speculation. By means of this guide we ascend to the knowledge of mens inclinations and passions, from their actions, expressions, and passions; and again, descend to the interpretation of their actions from the knowledge of their passions and inclinations. The general observations are confirmed by a course of practice and experience, which is the clue of human nature, and teaches us to find its labyrinth and intricacies. Prejudices no longer deceive us. Public opinion no longer passes for the specious colouring of a man's virtue and honour be allow'd their power and authority, that perfect disinterestedness, which is pretended, is never expected in multitudes; seldom in their leaders; and scarce in individuals of any rank or station. But there is no uniformity in human actions, and no experiment which we could form of this regular and anomalous, it were impossible to collect general observations concerning mankind; and therefore, however accurately digested by reason, could ever serve to any purpose. We are not more skilful in husbandry than a young beginner, but because there is a

tain uniformity in the operation of the sun, rain, and earth, towards the production of vegetables; and experience teaches the old practitioner the rules, by which this operation is govern'd and directed?

We must not, however, expect, that this uniformity of human actions should be carry'd such a length, as that all men in the same circumstances, should always act precisely in the same manner, without any allowance for the diversity of characters, prejudices, and opinions. Such a uniformity, in every particular, is found in no part of nature. On the contrary, from observing the variety of conduct and behaviour in different men, we are enabled to form a greater variety of rules and maxims, which still suppose a degree of uniformity and regularity.

ARE the manners of men different in different ages and countries? We learn thence the great force of custom and education, which mould the human mind from its infancy, and form it into a fix'd and establish'd character. Is the behaviour and conduct of the one sex very unlike that of the other? 'Tis from thence we become acquainted with the different characters, which nature has impress'd upon the sexes, and which she preserves with constancy and regularity. Are the actions of the same person much diversify'd in the different periods of his life, from infancy to old

age?

age? This affords room for many general observations concerning the gradual change of our sentiments and inclinations, and the different maxims, which prevail in the different ages of human creatures. Even the characters which are peculiar to each individual, have a constancy and uniformity in their influence, otherwise our acquaintance with the persons, and our observation of their conduct could never reach us their dispositions, nor serve to direct our behaviour with regard to them.

I GRANT it possible to find some actions, which seem to have no regular or uniform connexion with any known motives, and are exceptions to all the measures of conduct, which have ever been establish'd for the government of men. But if we would willingly know, what judgment should be form'd of such irregular and extraordinary actions; we may consider the sentiments that are commonly entertain'd with regard to those irregular events, which appear in the course of nature, and the operations of external objects. All causes are not conjoin'd to their usual effects, with like constancy and uniformity. An artificer, who handles only dead matter, may be disappointed of his scope and aim as well as the politician, who directs the conduct of sensible and intelligent agents.

THE vulgar, who take things according to their first appearance, attribute the uncertainty of events to such an uncertainty in the causes as makes the latter often fail of their usual influence; tho' they meet with no obstacle nor impediment in their operation. But philosophers, observing, that almost in every part of nature there is contain'd a vast variety of springs and principles, which are hid, by reason of their minuteness or remoteness, find, that 'tis at least possible the contrariety of events may not proceed from any contingency in the cause, but from the secret operation of contrary causes. This possibility is converted into certainty by farther observation, when they remark, that, upon an exact scrutiny, a contrariety of effects always betrays a contrariety of causes, and proceeds from their mutual hindrance and opposition. A peasant can give no better reason for the stopping of any clock or watch than to say that it commonly does not go right: But an artizan easily perceives, that the same force in the spring or pendulum has always the same influence on the wheels; but fails of its usual effect, perhaps by reason of a grain of dust, which puts a stop to the whole movement. From the observation of several parallel instances, philosophers form a maxim, that the connexion betwixt all causes and effects is equally necessary, and that its seeming uncertainty in some instances

But the grounds from the secret opposition of
many causes

For instance, in the human body, where
the progress of health or sickness disappoints
expectations, where medicines operate not with
uniform success, where irregular events follow
the regular course, the philosopher and phy-
sician find that in the human, not the ever tri-
umphant, general, the necessity and uniform
laws of nature, in which the animal econo-
my operates. They know, that a human bod-
y is not a perfect machine: That many
causes concur, which are altogether beyond
expectation. That to us it must often appear
irregular in its operations: And that therefor
irregular events, which outwardly discover
themselves, can be no proof, that the laws of nature
are observ'd with the greatest strictness and re-
gulation in its internal operations and government.

The philosopher, if he be consistent, must
use the same reasonings to the actions and volitions
of intelligent agents. The most irregular and
unsteady resolutions of men may frequently be
accounted for by those who know every particu-
lar circumstance of their character and situation. A
want of an obliging disposition gives a peevish and

but he has the tooth-ake, or has not din'd. A stupid fellow discovers an uncommon alacrity in his marriage: But he has met with a sudden piece of good-fortune. Or even when an action, as sometimes happens, cannot be particularly accounted for, either by the person himself or by others; we know, in general, that the characters of men are, to a certain degree, inconstant and irregular. This is, in a manner, the constant character of human nature; tho' it be applicable, in a more particular manner, to some persons, who have no fix'd rule for their conduct, but proceed in a continu'd course of caprice and inconstancy. The internal principles and motives may operate in a uniform manner, notwithstanding these seeming irregularities; in the same manner as the winds, rain, clouds, and other variations of the weather are suppos'd to be govern'd by steady principles; tho' not easily discoverable by human sagacity and enquiry.

Thus it appears, not only that the conjunction betwixt motives and voluntary actions is as regular and uniform, as that betwixt the cause and effect in any part of nature; but also that this regular conjunction has been universally acknowledg'd amongst mankind, and has never been the subject of dispute, either in philosophy or common life. Now as it is from past experience, that we draw all inferences
concerning

concerning the future, and as we conclude, that objects will always be conjoin'd together, which we find always to have been conjoin'd ; it may seem superfluous to prove, that this experienc'd uniformity in human actions is the source of all the *inferences*, which we form concerning them. But in order to throw the argument into a greater variety of lights, we shall also insist, tho' briefly, on this latter topic.

THE mutual dependance of men is so great, in all societies, that scarce any human action is entirely compleat in itself, or is perform'd without some reference to the actions of others, which are requisite to make it answer fully the *intention* of the agent. The poorest artificer, who labours alone, expects at least the protection of the magistrate, to ensure the enjoyment of the fruits of his labour. He also expects, that, when he carries his goods to market, and offers them at a reasonable price, he shall find buyers; and shall be able, by the money he acquires, to engage others to supply him with those commodities, which are requisite for his subsistence. In proportion as mens dealings are more extensive, and their intercourse with others more complicated, they always comprehend, in their schemes of life, a greater variety of voluntary actions, which they expect, from their proper motives, to co-operate with their own. In all these conclusions, they take their measures

tures from past experience, in the same manner as in their reasonings concerning external objects; and firmly believe, that men, as well as all the elements, are to continue, in their operations, the same, which they have ever found them. A manufacturer reckons upon the labour of his servants, for the execution of any work, as much as upon the tools, which he employs, and would be equally surpriz'd, in the one case, were his expectations disappointed, as in the other. In short, this experimental inference and reasoning concerning the actions of others enters so much into human life, that no man, while awake, is ever a moment without employing it. Have we not reason, therefore, to affirm, that all mankind have always agreed in the doctrine of necessity, according to the foregoing definition and explication of it?

Nor have philosophers ever entertain'd a different opinion from the people in this particular. For not to mention, that almost every action of their life supposes that opinion; there are even few of the speculative parts of learning, to which it is not essential. What would become of *history*, had we not a dependence on the veracity of the historian, according to the experience, which we have had of mankind? How could *politics* be a science, if laws and forms of government had not a uniform and regular influence upon society? Where would be the foundation of
morals,

morals, if particular characters had no certain terminate power to produce particular feelings, and if these sentiments had no constant operations? And with what pretext could we our *criticism* upon any poet or polite author could not pronounce the conduct and sentiments of his actors, either natural or unnatural, to be proper characters, and in such circumstances? It seems impossible, therefore to engage, either in the action of any kind, without acknowledging the existence of necessity, and this *inference* from involuntary actions; from characters to conduct

AND indeed, when we consider how aptly the *moral* evidence link together, and form one chain of argument, we shall make no allowance, that they are of the same nature, deriv'd from the same principles. A prisoner has neither money nor interest, discovers the possibility of his escape, as well from the weakness of the goaler, as from the walls and bars by which he is surrounded; and in all attempts to gain freedom, chuses rather to work upon the pliancy of the one, than upon the inflexibility of the other. The same prisoner, when on the scaffold, foresees his death as certainly from the constancy and fidelity of his guards, as from the violence of the ax or wheel. His mind runs

certain train of ideas : The refusal of the soldiers to consent to his escape ; the action of the executioner ; the separation of the head and body ; bleeding, convulsive motions, and death. Here is a connected chain of natural causes and voluntary actions ; but the mind feels no difference betwixt them, in passing from one link to another : Nor is less certain of the future event than if it were connected with the objects present to the memory or senses, by a train of causes, cemented together by what we are pleas'd to call a *physical* necessity. The same experienc'd union has the same effect on the mind, whether the united objects be motives, volitions, and actions ; or figure and motion. We may change the names of things ; but their nature and their operation on the understanding never change.

I have frequently consider'd, what could possibly be the reason, why all mankind, tho' they have ever, without hesitation, acknowledg'd the doctrine of necessity, in their whole practice and reasoning, have yet discover'd such a reluctance to acknowledge it in words, and have rather shewn a propensity, in all ages, to profess the contrary opinion. The matter, I think, may be accounted for, after the following manner. If we examine the operations of bodies and the production of effects from their causes, we shall find, that all our faculties can never carry

to farther in our knowlege of ~~the~~ relation, than
 to observe, that particular objects are *constantly*
 join'd together, and that the mind is carry'd, by a
constant association, from the appearance of the one
 to the relief of the other. But tho' this conclusion
 concerning human ignorance be the result of the
 strictest scrutiny and examination of this subject,
 men still entertain a strong propensity to believe, that
 they penetrate farther into the powers of nature,
 and perceive something like a necessary connexion
 betwixt the cause and the effect. When again they
 turn their reflections toward the operations of their
 own minds, and *feel* no such connexion of the mo-
 tive and the action; they are apt, from thence, to
 suppose, that there is a difference betwixt the effects,
 some arising from material and brute force, and those
 which arise from thought and intelligence. But be-
 ing once convinc'd, that we know nothing farther of
 causation of any kind, than merely the *constant co-*
existence of objects, and the consequent *inference* of
 the mind from one to another, and finding, that these
 two circumstances are universally acknowledg'd to
 have place in voluntary actions; we may thence be
 too easily led to own the same necessary common
 cause. And tho' this reasoning may contra-
 dict the systems of many philosophers, in ascribing ac-
 tivity to the determinations of the will, we shall find,
 on reflection, that they dissent from it in words
 only.

only, not in their real sentiments. Necessity, according to the sense, in which it is here taken, has never yet been rejected, nor can ever, I think, be rejected, by any philosopher. It may only, perhaps, be pretended, that the mind can perceive, in the operations of matter, some farther connexion betwixt the cause and effect; and a connexion, which has not place in the voluntary actions of intelligent beings. Now whether it be so or not, can only appear upon examination; and it is incumbent on these philosophers to make good their assertion, by defining or describing that necessity, and pointing it out to us, in the operations of material causes.

It would seem, indeed, that men begin at the wrong end of this question concerning liberty and necessity, when they enter upon it by examining the faculties of the soul, the influence of the understanding, and the operations of the will. Let them first discuss a more simple question, *viz.* the operations of body and of brute unintelligent matter; and try whether they can there form any idea of causation and necessity, except that of a constant conjunction of objects, and subsequent inference of the mind from one to another. If these circumstances form, in reality, the whole of that necessity, which we can conceive in matter, and if these circumstances be also universally acknowledg'd to take place in the operations of the mind, the dispute is at an end; or, at least,

least, must be own'd to be thenceforth merely verbal. But as long as we will rashly suppose, that we have some farther idea of necessity and causation in the operations of external objects; at the same time, that we can find nothing farther, in the voluntary actions of the mind; there is no possibility of bringing the dispute to any determinate issue, while we proceed upon so erroneous a supposition. The only method of undeceiving us, is, to mount up higher; to examine the narrow extent of our science, when apply'd to material causes; and to convince ourselves, that all we know of them, is, the constant conjunction and inference above-mention'd. We may, perhaps, find, that 'tis with difficulty we are induc'd to fix such narrow limits to human understanding: But we can afterwards find no difficulty, when we come to apply this doctrine to the actions of the will. For as 'tis evident, that these have a regular and constant conjunction with motives and circumstances and characters, and as we always draw inferences from the one to the other, we must be oblig'd to acknowledge, in words, that necessity, which we have already avow'd, in every deliberation and reflection of our lives, and in every step of our conduct and behaviour.*

But

* The prevalence of the doctrine of liberty may be accounted for, from another cause, viz. a false sensation or seeming experience which we have, or may have of liberty

to proceed in this reconciling project with respect to the question of liberty and necessity; the contentious question, of metaphysics, the most tedious science; it will not require many words

ference, in many of our actions. The necessity of action, whether of matter or of mind, is not, properly speaking, a quality in the agent, but in any thinking or sentient being, who may consider the action; and it consists in the determination of his thought to infer the cause of that action from some preceding objects; as when oppos'd to necessity, is nothing but the want of determination, and a certain looseness or indifference, we feel, in passing or not passing, from the idea of one object to that of any succeeding one. Now we may say, that, tho' in *reflecting* on human actions we seldom find a looseness or indifference, but are commonly able to connect them with considerable certainty from their motives, from the dispositions of the agent; yet it frequently happens, that, in *performing* the actions themselves, we are conscious of something like it: And as all resembling objects are easily taken for each other, this has been employ'd as a confirmative and even an intuitive proof of human liberty.

We feel, that our actions are subject to our will, on all occasions; and imagine we feel, that the will itself is subject to nothing, because, when by a denial of it we are oblig'd to try, we feel that it moves easily every way, and presents an image of itself, (or a *Velleity*, as it is call'd in schools) even on that side, on which it did not settle. When the image, or faint motion, we persuade ourselves, could, at some time, have been compleated into the thing itself; and, should that be deny'd, we find, upon a second trial, that, at present, it can. We consider not, that the fancied desire of shewing liberty is here the motive of our trial. And it seems certain, that however we may imagine we feel a liberty within ourselves, a spectator can compare our actions from our motives and character; and when where he cannot, he concludes in general, that he would, were he perfectly acquainted with every circumstance of situation and temper, and the most secret springs of complexion and disposition. Now this is the very effect of necessity, according to the foregoing doctrine.

to prove, that all mankind have ever agreed in doctrine of liberty as well as in that of necessity, that the whole dispute, in this respect also, has hitherto merely verbal. For what is meant by liberty, when apply'd to voluntary actions? We can surely mean, that actions have so little connexion with motives, inclinations, and circumstances, that the one does not follow with a certain degree of uniformity from the other, and that the one affords no inference from which we can conclude the existence of the other. For these are plain and acknowledged matters of fact. By liberty, then, we can only mean *a power of acting or not acting, according to the determinations of the will*; that is, if we chuse to remain at rest, we may; if we chuse to move, we also may. Now this hypothetical liberty is universally allow'd to belong to every body, who is not a prisoner in chains. Here then is no subject of dispute.

WHATEVER definition we may give of liberty, we should be careful to observe two requisite circumstances; *first*, that it be consistent with plain matters of fact; *secondly*, that it be consistent with itself. When we observe these circumstances, and render our definition intelligible, I am persuaded that all mankind will be found of one opinion with regard to it.

'Tis universally allow'd, that nothing exists without a cause of its existence, and that chance, which

strictly examin'd, is a mere negative word, and means not any real power, which has, any where, a being in nature. But 'tis pretended that some causes are necessary, and some are not necessary. Here then is the admirable advantage of definitions. Let any one *define* a cause, without comprehending, as a part of the definition, a *necessary connexion* with its effect; and let him shew distinctly the origin of the idea, express'd by the definition; and I shall frankly give up the whole controversy. But if the foregoing explication of the matter be receiv'd, this must be absolutely impracticable. Had not objects a regular and constant conjunction with each other, we should never have entertain'd any notion of cause and effect; and this constant conjunction produces that inference of the understanding, which is the only connexion, that we can have any comprehension of. Whoever attempts a definition of cause, exclusive of these circumstances, will be oblig'd, either to employ unintelligible terms, or such as are synonymous to the term, which he endeavours to define*. And if the definition above-mention'd, be admitted; liber-

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ty,

* Thus if a cause be defin'd, *that which produces any thing*; 'tis easy to observe, that *producing* is synonymous to *causing*. In like manner, if a cause be defin'd, *that by which any thing exists*; this is liable to the same objection. For what is meant by these words, *by which*? Had it been said, that a cause is *that* after which *any thing constantly exists*; we should have understood the terms. For this is, indeed, all we know of the matter. And this constancy forms the very essence of necessity, nor have we any other idea of it.

ty, when oppos'd to necessity, not to constraint, is the same thing with chance; which is universally allow'd to have no existence.

PART II.

THERE is no method of reasoning more common, and yet none more blameable, than in philosophical debates, to endeavour the refutation of any hypothesis, by a pretext of its dangerous consequences to religion and morality. When any opinion leads into absurdities, 'tis certainly false; but 'tis not certain that an opinion is false, because 'tis of dangerous consequence. Such topics, therefore, ought entirely to be forborne, as serving nothing to the discovery of truth, but only to make the person of an antagonist odious. This I observe in general, without pretending to draw any advantage from it. I submit frankly to an examination of this kind, and shall venture to affirm, that the doctrines, both of necessity and of liberty, as above explain'd, are not only consistent with morality and religion, but are absolutely essential to the support of them.

NCESSITY may be defin'd two ways, conformable to the two definitions of *cause*, of which it makes an essential part. It consists either in the constant on and conjunction of like objects, or in the influence of the understanding from one object to another.

other. Now necessity, in both these senses, (which, indeed, are, at bottom, the same) has universally, tho' tacitly, in the schools, in the pulpit, and in common life, been allow'd to belong to the will of man; and no one has ever pretended to deny, that we can draw inferences concerning human actions, and that those inferences are founded in the experienc'd union of like actions, with like motives, inclinations, and circumstances. The only particular, in which any one can differ, is, that either, perhaps, he will refuse to give the name of necessity to this property of human actions: But as long as the meaning is understood, I hope the word can do no harm: Or that he will maintain it possible to discover something farther in the operations of matter. But this, it must be acknowledg'd, can be of no consequence to morality or religion, whatever it may be to natural philosophy or metaphysics. We may here be mistaken in asserting, that there is no idea of any other necessity or connexion in the actions of body: But surely we ascribe nothing to the actions of the mind, but what every one does, and must readily allow of. We change no circumstance in the receiv'd orthodox system with regard to the will, but only in that with regard to material objects and causes. Nothing therefore can be more innocent, at least, than this doctrine.

ALL laws being founded in rewards and punishments, 'tis suppos'd as a fundamental principle, that these motives have a regular and uniform influence on the mind, and both produce the good and prevent the evil actions. We may give to this influence, what name we please; but as 'tis usually conjoin'd with the action, it must be esteem'd a *cause*, and be look'd upon as an instance of that necessity, which we would establish.

THE only proper object of hatred or vengeance, is a person or creature, endow'd with thought and consciousness; and when any criminal or injurious actions excite that passion, 'tis only by their relation to the person, or connexion with him. Actions are, by their very nature, temporary and perishing; and where they proceed not from some *cause* in the characters and disposition of the person, who perform'd them, they can neither redound to his honour, if good, nor infamy, if evil. The actions themselves may be blameable; they may be contrary to all the rules of morality and religion: But the person is not responsible for them; and as they proceeded from nothing in him, that is durable and constant, and leave nothing of that nature behind them, 'tis impossible he can, upon their account, become the object of punishment or vengeance. According to the principle, therefore, which denies necessity, and consequently

sequently causes, a man is as pure and untainted, after having committed the most horrid crime, as at the first moment of his birth, nor is his character any way concern'd in his actions; since they are not deriv'd from it, and the wickedness of the one can never be us'd as a proof of the depravity of the other.

MEN are not blam'd for such actions as they perform ignorantly and casually, whatever may be the consequences. Why? but because the principles of these actions are only momentary, and terminate in them alone. Men are less blam'd for such actions as they perform hastily and unpremeditatedly, than from such as proceed from thought and deliberation. For what reason? but because a hasty temper, tho' a constant cause or principle in the mind, operates only by intervals, and infects not the whole character. Again, repentance wipes off every crime, if attended with a reformation of life and manners. How is this to be accounted for? but by asserting, that actions render a person criminal, merely as they are proofs of criminal passions or principles in the mind; and when, by any alteration of these principles, they cease to be just proofs, they likewise cease to be criminal. But except upon the doctrine of necessity, they never were just proofs, and consequently never were criminal.

It will be equally easy to prove, and from the same arguments, that *liberty*, according to that definition above-mentioned, in which all men agree, is also impossible or necessary, and that no human actions, *voluntarily* or *necessarily*, are susceptible of any moral quality. We can be the objects either of approbation or censure. But as actions are objects of our moral judgments, so as much as they are indications of *goodness* or *virtue*, character, passions, and affections, so much as they can give rise either to *good* or *evil*, when they proceed not from these principles, but are deriv'd altogether from external force and violence.

I presume not to have obtained or remov'd all objections to this theory, with regard to necessity and liberty. I can foresee other objections, deriv'd from *reason*, which have not here been mention'd of. It may be said, for instance, that if *voluntary* actions be subjected to the same laws of necessity with the operations of matter, there is a continu'd chain of necessary causes, pre-ordain'd and pre-determin'd reaching from the original cause of all, to every volition of every human creature. No contingency any where in the universe; no indifference; no liberty. While we act, we are, at the same time, determin'd upon. The ultimate Author of all our volitions

as is the Creator of the world, who first bestow'd
tion on this immense machine, and plac'd all be-
s in that particular position, whence every subse-
quent event, by an inevitable necessity, must result.
human actions, therefore, either can have no turpi-
tude at all, as proceeding from so good a cause; or
they have any moral turpitude, they must in-
volve our Creator in the same guilt, while he is ac-
knowledg'd to be their ultimate cause and author.
as a man, who fired a mine, is answerable for all
consequences, whether the train he employ'd be
long or short; so wherever a continu'd chain of ne-
cessary causes are fix'd, that being, either finite or
infinite, who produces the first, is likewise the author
of all the rest, and must both bear the blame, and
deserve the praise, which belongs to them. Our
most sacred and most unalterable ideas of morality esta-
blish this rule, upon unquestionable reasons, when
we examine the consequences of any human action;
and these reasons must still have greater force, when
we apply'd to the volitions and intentions of a Being,
infinitely wise and powerful. Ignorance or impo-
tence may be pleaded for so limited a creature as
a man; but those imperfections have no place in our
Creator. He foresaw, he ordain'd, he intended all
the actions of men, which we so rashly pronounce
criminal. And we must conclude, therefore, either
that they are not criminal, or that the Deity, not.

man, is responsible for them. But as either position is absurd and impious, it follows, that doctrine, from which they are deduc'd, cannot be true, as being liable to all the same objections. An absurd consequence, if necessary, renders the original doctrine to be absurd; in the same manner that criminal actions render criminal the cause, if the connexion betwixt them be necessary and inevitable.

THIS objection consists of two parts, which I shall examine separately; *First*, that if human nature can be trac'd up, by a necessary chain, to the Supreme Being, they can never be criminal; on account of the infinite goodness and perfection of that Being, from which they are deriv'd, and who can intend nothing but what is altogether good and right. Or *Secondly*, if they be criminal, we must retract those attributes of goodness and perfection, which we ascribe to Deity, and must acknowledge him to be the author of guilt and moral turpitude in all his creatures.

THE answer to the first objection seems clear and convincing. There are many philosophers who, after an exact scrutiny of all the phænomena of nature, conclude, that the WHOLE, consider'd as a system, is, in every period of its existence, a

with perfect benevolence and goodness ; and that the utmost possible happiness will, in the end, result to every created being, without any mixture of positive or absolute ill and misery. Every physical ill, say they, makes an essential part of this benevolent system, and could not possibly be remov'd, even by the Deity himself, consider'd as a wise agent, without giving entrance to greater ill, or excluding greater good, which will result from it. From this theory, some philosophers, and the antient *Stoics* among the rest, deriv'd a topic of consolation, under all afflictions, while they taught their pupils, that those ills, under which they labour'd, were, in reality, goods to the universe ; and that to an enlarg'd view, which could comprehend the whole system of nature, every event became an object of joy and exultation. But tho' this topic be specious and sublime, it was soon found in practice weak and ineffectual. You would surely more irritate, than appease a man, lying under the racking pains of the gout, by preaching up to him the rectitude of those general laws, which produc'd the malignant humours in his body, and led them, thro' the proper canals, to the nerves and sinews, where they now excite such acute torments. These enlarg'd views may, for a moment, please the imagination of a speculative man, who is plac'd in ease and security ; but neither can they dwell with constancy on his mind, even tho' undisturb'd by the

emotions of pain or passion ; much less can they maintain their ground, when attack'd by such powerful antagonists. The affections take a narrower and more natural survey of their objects ; and by an oeconomy, more suitable to the infirmity of human minds, regard alone the beings around us, and are actuated by such events as appear good or ill to the private system. The case is the same with *moral* as with *physical* ill. It cannot reasonably be suppos'd, that those remote considerations, which are found of so little efficacy with regard to one, will have a more powerful influence with regard to the other. The mind of man is so form'd by nature, that, upon the appearance of certain characters, dispositions, and actions, it immediately feels the sentiment of approbation or blame ; nor are there any feelings or emotions more essential to its frame and constitution. The characters, which engage its approbation, are chiefly such as contribute to the peace and security of human society ; as the characters, which excite blame, are chiefly such as tend to public detriment and disturbance : Whence we may reasonably presume, that the moral sentiments arise, either mediately or immediately, from a reflection on these opposite interests. What tho' philosophical meditations establish a different opinion or conjecture, that every thing is right with regard to the whole, and that the qualities, which disturb society, are, in the main,

as beneficial, and are as suitable to the primary intention of nature, as those which more directly promote its happiness and welfare? Are such remote and uncertain speculations able to counter-balance the sentiments, which arise from the natural and immediate view of the objects? A man, who is robb'd of a considerable sum; does he find his vexation for the loss any way diminish'd by these sublime reflections? Why then should his moral resentment against the crime be suppos'd incompatible with them? Or why should not the acknowledgement of a real distinction betwixt vice and virtue be reconcileable to all speculative systems of philosophy, as well as that of a real distinction betwixt personal beauty and deformity? Both these distinctions are founded in the natural sentiments of the human mind: And these sentiments are not to be controul'd or alter'd by any philosophical theory or speculation whatsoever.

THE *second* objection admits not of so easy and satisfactory an answer; nor is it possible to explain distinctly, how the Deity can be the mediate cause of all the actions of men, without being the author of sin and moral turpitude. These are mysteries, which mere natural and unassisted reason is very unfit to handle; and whatever system it embraces, it must find itself involv'd in inextricable difficulties, and even contradictions, at every step which it takes
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with regard to such subjects. To reconcile the indifference and contingency of human actions with prescience; or to defend absolute decrees, and yet free the Deity from being the author of sin, has been found hitherto to exceed all the skill of philosophy. Happy, if she be thence sensible of her temerity when she pries into these sublime mysteries; and leaving a scene so full of obscurities and perplexities, return, with suitable modesty, to her true and proper province, the examination of common life; where she will find difficulties enough to employ her enquiries, without launching into so boundless an ocean of doubts, uncertainties and contradictions!

E S S A Y IX.

Of the REASON of ANIMALS.

ALL our reasonings concerning matter of fact are founded on a species of ANALOGY, which leads us to expect from any cause the same events, which we have observ'd to result from similar causes. Where the causes are entirely similar, the analogy is perfect, and the inference, drawn from it, is regarded as certain and conclusive; nor does any man ever entertain a doubt where he sees a piece of iron, that it will have weight and cohesion of parts; as in all other instances, which have ever fallen under his observation. But where the objects have not so exact a similarity, the analogy is less perfect, and
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up a knowledge of the nature of fire, water, earth, stones, heights, depths, &c. and of the effects, which result from their operation. The ignorance and inexperience of the young are here plainly distinguishable from the cunning and sagacity of the old, who have learnt, by long observation, to avoid what hurt them, and to pursue what gave ease or pleasure. A horse, that has been accustom'd to the field, becomes acquainted with the proper height, which he can leap, and will never attempt what exceeds his force and ability. An old greyhound will trust the more fatiguing part of the chase to the younger, and will place himself so as to meet the hare in her doubles; nor are the conjectures, which he forms on this occasion, founded in any thing but his observation and experience.

THIS is still more evident from the effects of discipline and education on animals, who, by the proper application of rewards and punishments, may be taught any course of action, the most contrary to their natural instincts and propensities. Is it not experience, which renders a dog apprehensive of pain, when you menace him, or lift up the whip to beat him? Is it not even experience, which makes him answer to his name, and infer, from such an arbitrary sound, that you mean him, rather than any of his fellows, and intend to call him, when you pronounce

nounce it in a certain manner, and with a certain tone and accent ?

IN all these cases, we may observe, that the animal infers some fact beyond what immediately strikes his senses ; and that this inference is altogether founded on past experience, while the creature expects from the present object the same events, which it has always found in its observation to result from similar objects.

Secondly. 'Tis impossible, that this inference of the animal can be founded on any process of argument or reasoning, by which he concludes, that like events must follow like objects, and that the course of nature will always be regular in its operations. For if there be in reality any arguments of this nature, they surely lie too abstruse for the observation of such imperfect understandings ; since it may well employ the utmost care and attention of a philosophic genius to discover and observe them. Animals, therefore, are not guided in these inferences by reasoning : Neither are children : Neither are the generality of mankind, in their ordinary actions and conclusions : Neither are philosophers themselves, who, in all the active parts of life, are, in the main, the same with the vulgar, and are govern'd by the same maxims. Nature must have provided some other

other principle, of more ready, and more general use and application ; nor can an operation of such immense consequence in life, as that of inferring effects from causes, be trusted to the uncertain process of reasoning and argumentation. Were this doubtful with regard to men, it seems to admit of no question with regard to the brute-creation ; and the conclusion being once firmly establish'd in the one, we have a strong presumption, from all the rules of analogy, that it ought to be universally admitted, without any exception or reserve. 'Tis custom alone, which engages animals, from every object, that strikes their senses, to infer its usual attendant, and carries their imagination, from the appearance of the one, to conceive the other, in that strong and lively manner, which we denominate *belief*. No other explication can be given of this operation, in all the higher, as well as lower classes of sensitive beings, which fall under our notice and observation *.

BUT

* Since all reasonings concerning facts or causes is deriv'd merely from custom, it may be ask'd how it happens, that men so much surpass animals in reasoning, and one man so much surpasses another ? Has not the same custom the same influence on all ?

We shall here endeavour briefly to explain the great difference in human understandings : After which, the reason of the difference betwixt men and animals will easily be comprehended.

1. When we have liv'd any time, and have been accus-tom'd to the uniformity of nature, we acquire a general ha-bit,

BUT tho' animals learn many parts of their knowledge from observation, there are also many parts of it, which they derive from the original hand of na-

ture, by which we always transfer the known to the unknown, and conceive the latter to resemble the former. By means of this general habitual principle, we regard even our experiment as the foundation of reasoning, and expect a similar event with some degree of certainty, where the experiment has been made accurately and free from all foreign circumstances. 'Tis therefore considered as a matter of great importance to observe the consequences of things; and as one man may very much surpass another in attention and memory and observation, this will make a very great difference in their reasoning.

2. Where there is a complication of causes to produce any effect, one mind may be much larger than another, and better able to comprehend the whole system of objects, and to infer justly their consequences.

3. One man is able to carry on a chain of consequences to a greater length than another.

4. Few men can think long without running into a confusion of ideas, and mistaking one for another; and there are various degrees of this infirmity.

5. The circumstance, on which the effect depends, is frequently involv'd in other circumstances, which are foreign and extrinsic. The separation of it often requires great attention, accuracy and subtilty.

6. The forming general maxims from particular observation is a very nice operation; and nothing is more usual from haste or a narrowness of mind, which sees not on all sides, than to commit mistakes in this particular.

7. When we reason from analogies, the man, who has the greater experience or the greater promptitude of suggesting analogies, will be the better reasoner.

8. Biasses from prejudice, education, passion, party, &c hang more upon one mind than another.

9. After we have acquired a confidence in human testimony, books and conversation enlarge much more the sphere of one man's experience and thought than those of another.

'Twould be easy to discover many other circumstances that make a difference in the understandings of men.

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nure, which much exceed the share of capacity they possess on ordinary occasions, and in which they improve, little or nothing, by the longest practice and experience. These we denominate *INSTINCTS*, and are so apt to admire, as something very extraordinary, and inexplicable by all the disquisitions of human understanding. But our wonder will, perhaps, cease or diminish; when we consider, that the experimental reasoning itself, which we possess in common with beasts, and on which the whole conduct of life depends, is nothing but a species of instinct or mechanical power, that acts in us unknown to ourselves; and in its chief operations, is not directed by any such relations or comparisons of ideas, as are the proper objects of our intellectual faculties. Tho' the instinct be different, yet still 'tis an instinct, which teaches a man to avoid the fire; as much as that, which teaches a bird, with such exactness, the art of incubation, and the whole oeconomy and order of its nursery.



ESSAY X.

Of MIRACLES.

PART I.

WHERE is in Dr. *Tillotson's* writings an argument against the *real presence*, which is as concise and elegant, and strong as any argument can be suppos'd against a doctrine, that is so worthy of a serious refutation. 'Tis acknowledged on all hands, says that learned prelate, that authority, either of the scripture or of tradition, rested merely in the testimony of the apostles, were eye-witnesses to those miracles of our Saviour, by which he prov'd his divine mission. Our reason, then, for the truth of the *Christian* religion is less than the evidence for the truth of our religion; because, even in the first authors of our religion, it was no greater; and 'tis evident it must diminish

diminish in passing from them to their disciples; nor can any one be so certain of the truth of their testimony as of the immediate objects of his senses. But a weaker evidence can never destroy a stronger; and therefore, were the doctrine of the real presence ever so clearly reveal'd in scripture, 'twere directly contrary to the rules of just reasoning to give our assent to it. It contradicts sense, tho' both the scripture and tradition, on which it is suppos'd to be built, carry not such evidence with them as sense; when they are consider'd merely as external evidences, and are not brought home to every one's breast, by the immediate operation of the Holy Spirit.

Nothing is so convenient as a decisive argument of this kind, which must at least *silence* the most arrogant bigotry and superstition, and free us from their impertinent solicitations. I flatter myself, that I have discover'd an argument of a like nature, which, if just, will, with the wise and learned, be an everlasting check to all kinds of superstitious delusion, and consequently, will be useful as long as the world endures. For so long, I presume, will the accounts of miracles and prodigies be found in all history, sacred and profane.

Tho' experience be our only guide in reasoning concerning matters of fact; it must be acknowledged that

that this guide is not altogether infallible, but in some cases is apt to lead us into errors and mistakes. One, who, in our climate, should expect better weather in any week of *June* than in one of *December*, would reason justly and conformable to experience; but 'tis certain, that he may happen, in the event, to find himself mistaken. However, we may observe, that, in such a case, he would have no cause to complain of experience; because it commonly informs us beforehand of the uncertainty, by that contrariety of events, which we may learn from a diligent observation. All effects follow not with like certainty from their suppos'd causes. Some events are found, in all countries and all ages, to have been constantly conjoin'd together: Others are found to have been more variable, and sometimes to disappoint our expectations; so that in our reasonings concerning matter of fact, there are all imaginable degrees of assurance, from the highest certainty to the lowest species of moral evidence.

A WISE man, therefore, proportions his belief to the evidence. In such conclusions as are founded on an infallible experience, he expects the event with the last degree of assurance, and regards his past experience as a full *proof* of the future existence of that event. In other cases, he proceeds with more caution: He weighs the opposite experiments: He con-

may think that a thousand or two great number
of experiments. To that that no instance, which doubt
and hesitation, and which is not in fact his judg-
ment, but which external, and which we properly call
evidence. All the manner, which supplies an op-
portunity of experiment and observation, where the
nature of things is over nature and nature, and to
nature, a degree of evidence, proportion'd to the
probability of nature, influence of experiments on
the fact, and which is another, afford a very doubt-
ful conclusion, in any event, and a hundred uni-
form experiments, which are not contradictory one,
contradictory, and a more strong degree of evidence.
In all cases, we must suppose the specific experi-
ments, where the nature is not, and which the left
of nature, but the greater, is not to know the
evidence, and the degree of evidence.

To apply these principles to a particular instance,
we must suppose that there is no species of reasoning,
more common, more useful, and even necessary to
human life, than that deriv'd from the reports of
men, and the reports of eye-witnesses, and the
sight. This species of reasoning, which is the
only to be founded on the fact, is not to be
fact. I shall not dis-
sufficient to observe,
ment of this kind is a

than our observation of the veracity of human testimony, and of the usual conformity of facts to the reports of witnesses. It being a general maxim, that no objects have any discoverable connexion together, and that all the inferences, which we can draw from one to another, are founded merely on our experience of their constant and regular conjunction; 'tis evident that we ought not to make an exception to this maxim in favour of human testimony, whose connexion with any events seems, in itself, as little necessary as any other. Did not mens imagination naturally follow their memory; had they not commonly an inclination to truth and a sentiment of probity; were they not sensible to shame, when detected in a falshood: Were not these, I say, discover'd by *experience* to be qualities, inherent in human nature, we should never repose the least confidence in human testimony. A man delirious, or noted for falshood and villany, has no manner of weight or authority with us.

AND as the evidence, deriv'd from witnesses and human testimony, is founded on past experience, so it varies with the experience, and is regarded either as a *proof* or a *probability*, according as the conjunction 'betwixt any particular kind of report and any kind of objects, has been found to be constant or variable. There are a number of circum-

stances to be taken into consideration in all judgments of this kind; and the ultimate standard, by which we determine all disputes, that may arise concerning them, is always deriv'd from experience and observation. Where this experience is not entirely uniform on any side, 'tis attended with an unavoidable contrariety in our judgments, and with the same opposition and mutual destruction of arguments as in every other kind of evidence. We frequently hesitate concerning the reports of others. We balance the opposite circumstances, which cause any doubt or uncertainty; and when we discover a superiority on any side, we incline to it; but still with a diminution of assurance, in proportion to the force of its antagonist.

THIS contrariety of evidence, in the present case, may be deriv'd from several different causes; from the opposition of contrary testimony; from the character or number of the witnesses; from the manner of their delivering their testimony; or from the union of all these circumstances. We entertain a suspicion concerning any matter of fact, when the witnesses contradict each other; when they are but few, or of a suspicious character; when they have an interest in what they affirm; when they deliver their testimony with doubt and hesitation, or on the contrary, with too violent asseverations. There are many other particulars

ticulars of the same kind, which may diminish or destroy the force of any argument, deriv'd from human testimony.

SUPPOSE, for instance, that the fact, which the testimony endeavours to establish, partakes of the extraordinary and the marvellous; in that case, the evidence, resulting from the testimony, receives a diminution, greater or less, in proportion as the fact is more or less unusual. The reason, why we place any credit in witnesses and historians is not from any connexion, which we perceive *à priori* betwixt testimony and reality, but because we are accusom'd to find a conformity betwixt them. But when the fact attested is such a one as has seldom fallen under our observation, here is a contest of two opposite experiences; of which the one destroys the other as far as its force goes, and the superior can only operate on the mind by the force, which remains. The very same principle of experience, which gives us a certain degree of assurance on the testimony of witnesses, gives us also, in this case, another degree of assurance against the fact, which they endeavour to establish; from which contradiction there necessarily arises a counterpoize, and mutual destruction of belief and authority.

I shou'd not believe such a story were it told me by Cato; was a proverbial saying in Rome, even during

the life-time of that philosophical patriot *. The incredibility of a fact, it was allow'd, might invalidate so great an authority.

THE *Indian* prince, who refus'd to believe the first relations concerning the effects of frost, reason'd justly; and it naturally required very strong testimony to engage his assent to facts, which arose from a state of nature, with which he was unacquainted, and bore so little analogy to those events, of which he had had constant and uniform experience. Tho' they were not contrary to his experience, they were not conformable to it †.

* Plutarch. in vita Catonis.

† No *Indian*, 'tis evident, could have experience, that water did not freeze in cold climates. This is placing nature in a situation quite unknown to him; and 'tis impossible for him to tell, *a priori*, what will result from it. 'Tis making a new experiment, the consequence of which is always uncertain. One may sometimes conjecture from analogy what will follow; but still this is but conjecture. And it must be confess'd, that, in the present case of freezing, the event follows contrary to the rules of analogy, and is such as a rational *Indian* would not look for. The operations of cold upon water are not gradual, according to the degrees of cold; but whenever it comes to the freezing point, the water passes, in a moment, from the utmost liquidity to perfect hardness. Such an event, therefore, may be denominated extraordinary, and requires a pretty strong testimony to render it credible to people in a warm climate: But still it is not miraculous, nor contrary to uniform experience of the course of nature in cases where all the circumstances are the same. The inhabitants of *Sumatra* have always seen water liquid in their own climate, and the freezing of their rivers ought to be deem'd a prodigy: But they never saw water in *Mexico* during the winter; and therefore they cannot reasonably be positive what would there be the consequence.

But

BUT in order to increase the probability against the testimony of witnesses, let us suppose that the fact, which they affirm, instead of being only marvellous, is really miraculous; and suppose also, that the testimony, consider'd apart, and in itself, amounts to an entire proof; in that case there is proof against proof, of which the strongest must prevail, but still with a diminution of its force, in proportion to that of its antagonist.

A M I R A C L E is a violation of the laws of nature; and as a firm and unalterable experience has establish'd these laws, the proof against a miracle, from the very nature of the fact, is as entire as any argument from experience can possibly be imagin'd. Why is it more than probable, that all men must die; that lead cannot, of itself, remain suspended in the air; that fire consumes wood, and is extinguish'd by water; unless it be that these events are found agreeable to the laws of nature, and there is requir'd a violation of these laws, or in other words, a miracle to prevent them? Nothing is esteem'd a miracle if it ever happen in the common course of nature. 'Tis no miracle that a man in seeming good health should die on a sudden; because such a kind of death, tho' more unusual than any other, has yet been frequently observ'd to happen. But 'tis a mi-

racle, that a dead man should come to life ; because that has never been observ'd, in any age or country. There must, therefore, be an uniform experience against every miraculous event, otherwise the event would not merit that appellation. And as an uniform experience amounts to a proof, there is here a direct and full *proof*, from the nature of the fact, against the existence of any miracle ; nor can such a proof be destroy'd, or the miracle render'd credible, but by an opposite proof, which is superior *.

THE plain consequence is (and 'tis a general maxim worthy of our attention) “ That no testimony is suf-

* Sometimes an event may not, *in itself*, seem to be contrary to the laws of nature, and yet, if it were real, it might, by reason of some circumstances, be denominated a miracle, because, *in fact*, it is contrary to these laws. Thus if a person, claiming a divine authority, should command a sick person to be well, a healthful man to fall down dead, the clouds to pour rain, the winds to blow, in short, should order many natural events, which immediately follow upon his command ; these might justly be esteem'd miracles, because they are really, in this case, contrary to the laws of nature. For if any suspicion remain, that the event and command concurr'd by accident, there is no miracle and no transgression of the laws of nature. If this suspicion be remov'd, there is evidently a miracle, and a transgression of these laws ; because nothing can be more contrary to nature than that the voice or command of a man should have such an influence. A miracle may be accurately defin'd, *a transgression of a law of nature by a particular volition of the Deity, or by the interposal of some sensible agent*. A miracle may either be discoverable by men or not. This alters not its nature and essence. The raising of a house or ship into the air is a visible miracle. The raising of a feather, when the wind wants ever so little of a force requisite for that purpose, is as real a miracle, tho' not so sensible with regard to us,

“ *Excerpt*

“sufficient to establish a miracle, unless the testimony
 “be of such a kind, that its falshood would be
 “more miraculous, than the fact, which it endea-
 “vours to establish : And even in that case, there is
 “a mutual destruction of arguments, and the superior
 “only gives us an assurance suitable to that degree
 “of force, which remains, after deducting the infe-
 “rior.” When any one tells me, that he saw a
 dead man restor’d to life, I immediately consider
 with myself, whether it be more probable, that this
 person should either deceive or be deceiv’d, or that
 the fact which he relates, should really have hap-
 pen’d. I weigh the one miracle against the other,
 and according to the superiority, which I discover,
 I pronounce my decision, and always reject the
 greater miracle. If the falshood of his testimony
 would be more miraculous, than the event, which
 he relates ; then, and not till then, can he pretend
 to command my belief or opinion.

P A R T II.

In the foregoing reasoning we have suppos’d, that
 the testimony, upon which a miracle is founded,
 may possibly amount to an entire proof, and that the
 falshood of that testimony would be a kind of pro-

digy. But 'tis easy to shew, that we have been a great deal too liberal in our concessions, and that there never was a miraculous event, establish'd on so full an evidence.

For *first*, there is not to be found, in all history, any miracle attested by a sufficient number of men, of such unquestion'd good-sense, education, and learning as to secure us against all delusion in themselves; of such undoubted integrity, as to place them beyond all suspicion of any design to deceive others; of such credit and reputation in the eyes of mankind as to have a great deal to lose in case of being detected in any falsehood; and at the same time attesting facts, perform'd in such a public manner, and in so celebrated a part of the world, as to render the detection unavoidable: All which circumstances are requisite to give us a full assurance in the testimony of men.

SECONDLY. We may observe in human nature a principle, which, if strictly examin'd, will be found to diminish extremely the assurance, which we might have, from human testimony, in any kind of prodigy. The maxim, by which we commonly conduct ourselves in our reasonings, is, that the objects, of which we have no experience, resemble those, of which we have; that what we have found to be most
usual

usual is always most probable ; and that where there is any opposition of arguments, we ought to give the preference to such of them as are founded on the greatest number of past observations. But tho' in proceeding by this rule, we readily reject any fact, which is unusual and incredible in an ordinary degree ; yet in advancing farther, the mind observes not always the same rule ; but when any thing is affirm'd utterly absurd and miraculous, it rather the more readily admits such a fact, upon account of that very circumstance, which ought to destroy all its authority. The passion of *surprize* and *wonder*, arising from miracles, being an agreeable emotion, gives a sensible tendency towards the belief of those events, from which it is deriv'd. And this goes so far, that even those who cannot enjoy this pleasure immediately, nor can believe those miraculous events, of which they are inform'd, yet love to partake of the satisfaction at second-hand, or by rebound, and place a pride and delight in exciting the admiration of others.

With what greediness are the miraculous accounts of travellers receiv'd, their descriptions of sea and land monsters, their relations of wonderful adventures, strange men, and uncouth manners ? But if the spirit of religion join itself to the love of won-

der, there is an end of common sense; and human testimony, in these circumstances, loses all pretensions to authority. A religionist may be an enthusiast, and imagine he sees what has no reality: He may know his narration to be false, and yet persevere in it, with the best intentions in the world, for the sake of promoting so holy a cause: Or even where this delusion has no place, vanity, excited by so strong a temptation, operates on him more powerfully than on the rest of mankind in any other circumstances; and self-interest with equal force. His auditors may not have, and commonly have not sufficient judgment to canvass his evidence: What judgment they have, they renounce by principle, in these sublime and mysterious subjects: Or if they were ever so willing to employ it, passion and a heated imagination disturb the regularity of its operations. Their credulity increases his impudence: And his impudence overpowers their credulity.

ELOQUENCE, when in its highest pitch, leaves little room for reason or reflection; but addressing itself entirely to the fancy or the affections, captivates the willing hearers, and subdues their understanding. Happily, this pitch it seldom attains. But what a *Cicero* or a *Demosthenes* could scarcely operate over a *Roman* or *Athenian* audience, every *Capuchin*, every
 itine-

nt or stationary teacher can perform over the utility of mankind, and in a higher degree, by neg such gross and vulgar passions *.

INDLY. It forms a very strong presumption t all supernatural and miraculous relations, hey are observ'd chiefly to abound amongst ig- t and barbarous nations ; or if a civiliz'd peo- as ever given admiffion to any of them, that e will be found to have receiv'd them from ig- t and barbarous ancestors, who transmitted them that inviolable fanchion and authority, which s attends antient and receiv'd opinions. When ruse the first histories of all nations, we are apt

'he many instances of forg'd miracles, and prophecies pernatural events, which, in all ages, have either been d by contrary evidence, or which detect themselves ir absurdity, mark fufficiently the strong propensity of nd to the extraordinary and the marvellous, and ought ably to beget a fufpicion againft all relations of this

This is our natural way of thinking even with re- o the most common and most credible events. For e : There is no kind of report, which rife fo easily, reads fo quickly, efpecially in country-places and pro- towns, as thofe concerning marriages ; infomuch that ung perfons of equal condition never fee each other but the whole neighbourhood immediately join them er. The pleafure of telling a piece of news fo in- ng, of propagating it, and of being the first reporters, fpreads the intelligence. And this is fo well known, o man of fenfe gives attention to thefe reports, till ls them confirm'd by fome greater evidence. Do not ne paffions, and others ftill ftronger, incline the gene- of mankind to the believing and reporting, with the ft vehemence and affurance, all religious miracles ?

to imagine ourselves transported into some new world, where the whole frame of nature is disjointed, and every element performs its operations in a different manner, from what it does at present. Battles, revolutions, pestilences, famines, and death are never the effects of those natural causes, which we experience. Prodigies, omens, oracles, judgments quite obscure and over-shadow the few natural events, that are intermingled with them. But as the former grow thinner every page, in proportion as we advance nearer the enlighten'd ages of science and knowledge, we soon learn, that there is nothing mysterious or supernatural in the case, but that all proceeds from the usual propensity of mankind towards the marvellous and extraordinary, and that tho' this inclination may at intervals receive a check from sense and learning, it can never thoroughly be extirpated from human nature.

'Tis strange, a judicious reader is apt to say, upon the perusal of these wonderful historians, *that such prodigious events never happen in our days.* But 'tis nothing strange, I hope, that men should lie in all ages. You must surely have seen instances enow of that frailty. You have yourself heard many such marvellous relations started, which being treated with scorn by all the wise and judicious, have at last been abandon'd, even by the vulgar. Be assur'd, that
2
those

those renown'd lies, which have spread and flourish'd to such a monstrous height, arose from like beginnings; but being sown in a more proper soil, shot up at last into prodigies almost equal to those, which they relate.

'Twas a wise policy in that cunning impostor, *Alexander*, who, tho' now forgotten, was once so famous, to lay the first scene of his impostures in *Popblagonia*, where, as *Lucian* tells us, the people were extremely ignorant and stupid, and ready to swallow even the grossest delusion. People at a distance, who are weak enough to think the matter at all worth enquiry, have no opportunity of receiving better information. The stories come magnify'd to them by a hundred circumstances. Fools are industrious to propagate the delusion; while the wise and learned are contented, in general, to deride its absurdity, without informing themselves of the particular facts, by which it may be distinctly refuted. And thus the impostor above-mention'd was enabled to proceed, from his ignorant *Popblagonians*, to the insinuating of votaries, even among the *Grecian* philosophers, and men of the most eminent rank and distinction in *Rome*. Nay could engage the attention of that sage emperor *Marcus Aurelius*; so far as to make him
trust

trust the success of a military expedition to his delusive prophecies.

THE advantages are so great of starting an imposture amongst an ignorant people, that even tho' the delusion should be too gross to impose on the generality of them (*which, tho' seldom, is sometimes the case*) it has a much better chance of succeeding in remote countries, than if the first scene had been laid in a city renown'd for arts and knowledge. The most ignorant and barbarous of these barbarians carry the report abroad. None of their countrymen have large enough correspondence or sufficient credit and authority to contradict and beat down the delusion. Mens inclination to the marvellous has full opportunity to display itself. And thus a story shall pass for certain at a thousand miles distance, which is universally exploded in the place where it was first started. But had *Alexander* fix'd his residence at *Athens*, the philosophers of that renown'd mart of learning, had immediately spread, thro' the whole *Roman* empire, their sense of the matter, which, being supported by so great authority, and display'd by all the force of reason and eloquence, had entirely open'd the eyes of mankind. 'Tis true; *Lucian* passing by chance thro' *Paphlagonia* had an opportunity of performing this good office. But, tho' much to
be

: wish'd, it does not always happen, that every *Alexander* meets with a *Lucian*, ready to expose and detect his impostures *.

I MAY add as a *fourth* reason, which diminishes the authority of prodigies, that there is no testimony for any, even those which have not been expressly attested, that is not oppos'd by an infinite number of witnesses; so that not only the miracle destroys the credit of the testimony, but even the testimony destroys itself. To make this the better understood, let us consider, that, in matters of religion, whatever is different is contrary, and that 'tis impossible the religions of antient *Rome*, of *Turkey*, of *Siam*, and of *China* should, all of them, be establish'd on any solid foundation. Every miracle, therefore, pretended to have been wrought in any of these religions (and all of them abound in miracles) as its direct scope is to establish the particular system, to which it is attributed; so it has the same force, tho'

* It may here, perhaps, be objected, that I proceed rashly, and form my notions of *Alexander* merely from the account, given of him by *Lucian*, a profess'd enemy. It were, indeed, to be wish'd, that some of the accounts publish'd by his followers and accomplices had remain'd. The opposition and contrast betwixt the character and conduct of the same man, as drawn by a friend or an enemy is as strong, even in common life, much more in these religious matters, as that betwixt any two men in the world, betwixt *Alexander* and *St. Paul*, for instance. See a letter to *Gilbert West*, Esq; on the conversion and apostleship of *St. Paul*.

more indirectly, to overthrow every other system. In destroying a rival-system, it likewise destroys the credit of those miracles, on which that system was establish'd ; so that all the prodigies of different religions are to be regarded as contrary facts, and the evidences of these prodigies, whether weak or strong, as opposite to each other. According to this method of reasoning, when we believe any miracle of *Mahomet* or any of his successors, we have for our warrant the testimony of a few barbarous *Arabians* : And on the other side, we are to regard the authority of *Titus Livius*, *Plutarch*, *Tacitus*, and in short of all the authors and witnesses, *Grecian*, *Chinese*, and *Roman Catholic*, who have related any miracles in their particular religion ; I say, we are to regard their testimony in the same light as if they had mention'd that *Mahometan* miracle, and had in express terms contradicted it, with the same certainty as they have for the miracles they relate. This argument may appear over subtle and refin'd ; but is not in reality different from the reasoning of a judge, who supposes, that the credit of two witnesses, maintaining a crime against any one, is destroy'd by the testimony of two others, who affirm him to have been two hundred leagues distant, at the same instant when the crime is said to have been committed.

ONE of the best attested miracles in all profane history is that which *Tacitus* reports of *Vespasian*, who
cur'd

cur'd a blind man in *Alexandria*, by means of his spittle, and a lame man by the mere touch of his foot; in obedience to a vision of the god, *Serapis*, who had enjoyn'd them to have recourse to the emperor, for these miraculous and extraordinary cures. The story may be seen in that fine historian*; where every circumstance seems to add weight to the testimony, and might be display'd at large with all the force of argument and eloquence, if any one were now concern'd to enforce the evidence of that exploded and idolatrous superstition. The gravity, solidity, age, and probity of so great an emperor, who, thro' the whole course of his life, convers'd in a familiar way with his friends and courtiers, and never affected those 'extraordinary airs of divinity, assum'd by *Alexander* and *Demetrius*. The historian, a cotemporary writer, noted for candour and veracity, and withal, the greatest and most penetrating genius, perhaps, of all antiquity; and so free from any tendency to superstition and credulity, that he even lies under the contrary imputation, of atheism and prophaneness: The person, from whose testimony he related the miracle, of establish'd character for judgment and veracity, as we are inform'd by eye-witnesses of the fact, and confirm'd by the Flavian family were deposed

* Hist. Lib. 5. Cap. 8. *Suetonius*
in *Vita Vesp.*

pire, and could no longer give any reward, as the price of a lie. *Utrumque, qui interfuerit, nunc quoque memrant, postquam nullum mendacio pretium.* To which if we add the public nature of the facts, related, it will appear, that no evidence can well be suppos'd stronger for so gross and so palpable a falsehood.

THERE is also a very memorable story related by *Cardinal de Retz*, and which may well deserve our consideration. When that intriguing politician fled into *Spain*, to avoid the persecution of his enemies, he passed thro' *Saragossa*, the capital of *Aragon*, where he was shewn, in the cathedral church, a man, who had serv'd twenty years as a door-keeper of the church, and was well known to every body in town that had ever paid their devotions at that cathedral. He had been seen, for so long a time, wanting a leg; but recover'd that limb by the rubbing of holy oil upon the stump; and the cardinal assures us that he saw him with two legs. This miracle was vouch'd by all the canons of the church; and the whole company in town were appealed to for a confirmation of the fact; whom the cardinal found, by their zealous devotion, to be thorough believers of the miracle. Here the relater was also cotemporary to the suppos'd prodigy, of an incredulous and libertine character as well as of great genius, the miracle
of

singular a nature as could scarce admit of a perfect, and the witnesses very numerous, and all in, in a manner, spectators of the fact, to they gave their testimony. And what adds to the force of the evidence, and may be our surprize on this occasion, is, that the man himself, who relates the story, seems not to give any credit to it, and consequently cannot be suspected of any concurrence in the holy fraud. He would justly, that it was not requisite, in order to prove a fact of this nature, to be able accurately to give the testimony, and to trace its falshood, and all the circumstances of knavery and credulity, which produc'd it. He knew, that, as this was commonly altogether impossible at any small distance of time and place; so was it extremely difficult, even when one was immediately present, by reason of the hurry, ignorance, cunning, and roguery of a great part of mankind. He therefore concluded, — that such an evidence carry'd more weight, and that a miracle, — more pro-

fancify the people were so long deluded. The curing of the sick, giving hearing to the deaf, and sight to the blind, were every where talk'd of, as the usual effects of that holy sepulchre. But what is more extraordinary; many of the miracles were immediately prov'd, upon the spot, before judges of unquestion'd integrity, attested by witnesses of credit and distinction in a learned age, and on the most eminent teachers, that is now in the world. Nor is this all: A relation of them was publish'd, and dispers'd every where; nor were the *Jesuits*, tho' a learned body, supported by the civil magistrate, and determin'd partisans to those opinions, in whose favour the miracles were said to have been wrought, ever able distinctly to refute or detect them*. Where shall

*This book was wrote by *Monf. de Montgeron*, counsellor or judge of the parliament of *Paris*, a man of figure and character, who was also a martyr to the cause, and is now said to be somewhere in a dungeon on account of his book.

There is another book in three volumes (called *Récueil des Miracles de l'Abbé Paris*) giving an account of many of these miracles, and accompanied with prefatory discourses, which are very well wrote. There runs, however, thro' the whole of these a ridiculous comparison betwixt the miracles of our Saviour and those of the *Abbé*; wherein 'tis asserted, that the evidence for the latter is equal to that for the former: As if the testimony of men could ever be put in the balance with that of God himself, who conducted the pen of the inspir'd writers. If these writers, indeed, were to be consider'd merely as human testimony, the *French* author is very moderate in his comparison; since he might, with some appearance of reason, pretend, that the *Jansenist* miracles much surpass the others in evidence and authority. The follow-

and such a number of circumstances, agreeing to the corroboration of one fact? And what have we exposed to such a cloud of witnesses, but the impossibility or miraculous nature of the events, which

circumstances are drawn from authentic papers, inserted in the above-mention'd book:

Many of the miracles of *Abbé Paris* were prov'd immediately by witnesses before the officiality or bishop's court of Paris, under the eye of cardinal *Noailles*, whose character for integrity and capacity was never contested even by his ene-

successor in the archbishopric was an enemy to the *Jesuits*, and for that reason promoted to the see by the

Yet 22 rectors or *curés* of *Paris*, with infinite ear-
ests, press him to examine those miracles, which they
to be known to the whole world, and indisputably
1: But he wisely forbore.

The *Molinist* party had try'd to discredit these miracles in
instance, that of *Mademoiselle le Franc*. But besides, that
proceedings were in many respects the most irregular
world, particularly in citing only a few of the *Janse-*
vitesses, whom they tamper'd with: Besides this, I
they soon found themselves overwhelm'd by a cloud of
witnesses, one hundred and twenty in number, most of
persons of credit and substance in *Paris*, who gave
for the miracle. This was accompanied with a so-
and earnest appeal to the parliament: But the par-
ment were forbid by authority to meddle in the affair.
As at last observ'd, that where men are heated by zeal
enthusiasm, there is no degree of human testimony so
as may not be procur'd for the greatest absurdity:
those who will be so silly as to examine the affair
at medium, and seek particular flaws in the testimo-
are almost sure to be confounded. It must be a miser-
imposture, indeed, that does not prevail in that con-

all who have been in *France* about that time have heard of
great reputation of *Monf. Hérault*, the *lieutenant de Polie*,
his vigilance, penetration, activity, and extensive intel-
lects have been much talk'd of. This magistrate, who
by

which they relate? And this surely, in the all reasonable people, will alone be regarded as sufficient refutation.

Is the consequence just, because some human testimony has the utmost force and authority

by the nature of his office is almost absolute, was with full powers, on purpose to suppress or discern miracles; and he frequently seiz'd immediately, min'd the witnesses and subjects of them: But he reach any thing satisfactory against them.

In the case of *Mademoiselle Thibaut* he sent the *Syde* to examine her; whose evidence is very curious. A physician declares, that it was impossible she could have been so ill as was prov'd by witnesses; because it is impossible she could, in so short a time, have recovered perfectly as he found her. He reasoned like a man from natural causes; but the opposite party told him the whole was a miracle, and that his evidence was the best proof of it.

The *Molinists* were in a sad dilemma. They durst not assert the absolute insufficiency of human evidence in a miracle: They were oblig'd to say, that these miracles were wrought by witchcraft and the devil. But they told, that this was the resource of the *Jews* of old.

No *Jansenist* was ever embarrass'd to account for the miracles, when the church-yard was by the king's edict. 'Twas the touch of the tomb operated these extraordinary effects; and when men could approach the tomb, no effects could be effected. God, indeed, could have thrown down the walls of Jerusalem; but he is master of his own graces and wonders, and it belongs not to us to account for them. He did not break down the walls of every city, like those of *Jericho*, nor sounding of the rams-horns, nor break up the pavement, like that of *St. Paul*.

No less a man, than the *Duc de Choiseul*, a duke of France of the highest rank and family, gives evidence of a miraculous cure, perform'd upon a servant of his, and

ases, when it relates to the *Port-Resyl*, and the *Port-Resyl*, for instance: and therefore it is not a money matter, in all cases, but a matter of authority? Suppose that the *Port-Resyl* had

liv'd several years in the state of a *Port-Resyl*, and in the infirmity.

I shall conclude with observing, that the *Port-Resyl* is celebrated for its strength of life, and its strength of life, and its strength of life, particularly the *Port-Resyl*, who bear such testimony to the strength of life.

The learning, genius, and piety of the *Port-Resyl*, and the austerity of the nuns of *Port-Resyl*, have been much celebrated all over *Europe*. Yet they are a great deal more than a miracle, wrought on the piece of the famous *Port-Resyl*, whose sanctity of life, as well as extraordinary capacity, is well known. The famous *Racine* gives an account of this miracle in his famous history of *Port-Resyl*, and furnishes it with all the proofs, which a multitude of nuns, priests, physicians, and men of the world, all of them of undoubted credit, cou'd bestow upon it. Several men of letters, particularly the bishop of *Tournay*, thought this miracle to be certain, as to employ it in the refutation of atheists and free-thinkers. The queen-regent of *France*, who was extremely prejudic'd against *Port-Resyl*, sent her own physician to examine the miracle, who return'd an absolute convert. In short, the supernatural cure was so uncontested, that it liv'd, for a time, that famous monastery from the ruin of which it was threaten'd by the *Jesuits*. Had it been a cheat, it had certainly been detected by such sagacious and powerful antagonists, and must have hasten'd the ruin of the contrivers. Our divines, who can build up a formidable castle from such despicable materials; what a prodigious fabric cou'd they have rear'd from these and many other circumstances, which I have not mention'd! How oft wou'd the great names of *Pascal*, *Racine*, *Arnaud*, *Nicolas*, have resounded in our ears? But if they be wise, they had better adopt the miracle, as being more worth, a thousand times, than all the rest of their collection. Besides, it may serve very much to their purpose. For it was really perform'd by the touch of an authentic holy prick, of the holy thorn, which compos'd the holy crown, which, &c.

factions had, each of them, claim'd the victory in these battles, and that the historians of each party had uniformly ascrib'd the advantage to their own side; how could mankind, at this distance, have been able to determine betwixt them? The contrariety is equally strong betwixt the miracles related by *Heredotus* or *Plutarch*, and those deliver'd by *Mariana*, *Bede*, or any monkish historian.

THE wise lend a very academic faith to every report, which favours the passion of the reporter, whether it magnifies his country, his family, or himself, or in any other way strikes in with his natural inclinations and propensities. But what greater temptation than to appear a missionary, a prophet, an ambassador from heaven? Who would not encounter many dangers and difficulties, in order to attain so sublime a character? Or if, by the help of vanity and a heated imagination, a man has first made a convert of himself and enter'd seriously into the delusion; who ever scruples to make use of pious frauds, in support of so holy and meritorious a cause?

THE smallest spark may here kindle into the greatest flame; because the materials are always prepar'd for it. The *avidum genus auricularum**, swallow greedily, without examination, whatever soothes superstition, and promotes wonder.

* *Lucret.*

How many stories of this nature have, in all ages, been detected and exploded in their infancy? How many more have been celebrated for a time, and have afterwards sunk into neglect and obscurity? Where such reports, therefore, fly about the detection of the phenomenon is obvious: and we judge in conformity to regular experience and observation, when we account for it by the known and natural principles of credulity and delusion. And shall we, rather than have a recourse to so natural a solution, allow of a miraculous violation of the most establish'd laws of nature?

I NEED not mention the difficulty of detecting a falshood in any private or even public history, at the time and place, where it is said to happen: much more where the scene is remov'd to ever so small a distance. Even a court of judicature, with all the authority, accuracy, and judgment, which they can employ, find themselves often at a loss to distinguish betwixt truth and falshood in the most recent actions. But the matter never comes to any issue, if trusted to the common method of altercation and debate and flying rumours; especially when men's passions have taken party on either side.

In the infancy of new religions, the wise and learned commonly esteem the matter too inconsider-

able to deserve their attention or regard : And when afterwards they would willingly detect the cheat, in order to undeceive the deluded multitude, the season is now gone, and the records and witnesses, that might clear up the matter, have perish'd beyond recovery.

No means of detection remain, but those which must be drawn from the very testimony itself of the reporters : And these, tho' always sufficient with the judicious and knowing, are commonly too fine to fall under the comprehension of the vulgar.

UPON the whole, then, it appears, that no testimony for any kind of miracle has ever amounted to a probability, much less to a proof ; and that even supposing it amounted to a proof, it would be oppos'd by another proof, deriv'd from the very nature of the fact, which it would endeavour to establish. 'Tis experience only, which gives authority to human testimony ; and 'tis the same experience, which assures us of the laws of nature. When, therefore, these two kinds of experience are contrary, we have nothing to do but subtract the one from the other, and embrace an opinion, either on one side or the other, with that assurance, which arises from the remainder. But according to the principle here explain'd, this subtraction, with regard to all popular religions, amounts to an entire annihilation ;

lation ; and therefore we may establish it as a maxim, that no human testimony can have such force as to prove a miracle, and make it a just foundation for any such system of religion *.

I 3

I AM

* I beg the limitations here made may be remark'd, when I say, that a miracle can never be prov'd, so as to be the foundation of a system of religion. For I own, that otherwise, there may possibly be miracles, or violations of the usual course of nature, of such a kind as to admit of proof from human testimony ; tho', perhaps, it will be impossible to find any such in all the records of history. Thus suppose, all authors, in all languages, agree, that from the first of *January*, 1600, there was a total darkness over the whole earth for eight days : Suppose that the tradition of this extraordinary event, is still strong and lively among the people : That all travellers, who return from foreign countries, bring us accounts of the same tradition, without the least variation or contradiction : 'Tis evident, that our present philosophers, instead of doubting of that fact, ought to receive it for certain, and ought to search for the causes, whence it might be deriv'd. The decay, corruption, and dissolution of nature, is an event render'd probable by so many analogies, that any phenomenon, which seems to have a tendency towards that catastrophe, comes within the reach of human testimony, if that testimony be very extensive, and uniform.

But suppose, that all the historians, who treat of *England*, should agree, that on the first of *January*, 1600, queen *Elizabeth* died ; that both before and after her death she was seen by her physicians and the whole court, as is usual with persons of her rank ; that her successor was acknowledg'd and proclaim'd by the parliament ; and that, after being interr'd a month, she again appear'd, took possession of the throne, and govern'd *England* for three years : I must confess I should be surpriz'd at the concurrence of so many odd circumstances, but should not have the least inclination to believe so miraculous an event. I should not doubt of her pretended death, and of those other public circumstances, that follow'd it : I should only assert it to have been pretended, and that it neither was, nor possibly could be real.

You

I AM the better pleas'd with this method of reasoning, as I think it may serve to confound those dangerous friends or disguis'd enemies to the *Christian Religion*, who have undertaken to defend it by the principles of human reason. Our most holy religion is founded on *Faith*, not on reason; and 'tis a sure method of exposing it to put it to such a trial as it is, by no means, fitted to endure. To make this more evident, let us examine those miracles, related in scripture; and not to lose ourselves in too wide a field, let us confine ourselves to such as we find in the *Pentateuch*, which we shall examine, according to the principles of these pretended Christians, not

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You would in vain object to me the difficulty, and almost impossibility of deceiving the world in an affair of such consequence; the wisdom and integrity of that renown'd queen; with the little or no advantage which she could reap from so poor an artifice: All this might astonish me; but I would still reply, that the knavery and folly of men are such common phenomena, that I should rather believe the most extraordinary events to rise from their concurrence than admit so signal a violation of the laws of nature.

But should this miracle be ascrib'd to any new system of religion; men, in all ages, have been so much impos'd on by ridiculous stories of that kind; that this very circumstance would be a full proof of a cheat, and sufficient, with all men of sense, not only to make them reject the fact, but even reject it without farther examination. Tho' the Being to whom the miracle is ascrib'd, be, in this case, Almighty, it does not, upon that account, become a whit more probable; since 'tis impossible for us to know the attributes or actions of such a being, otherwise than from the experience, which we have, of his productions, in the usual course of nature. This still reduces us to past observation,

and

as the word or testimony of God himself, but as the production of a mere human writer and historian. Here then we are first to consider a book, presented to us by a barbarous and ignorant people, wrote in an age when they were still more barbarous, and in all probability long after the facts which it relates; corroborated by no concurring testimony, and resembling those fabulous accounts, which every nation gives of its origin. Upon reading this book, we find it full of prodigies and miracles. It gives an account of a state of the world and of human nature entirely different from the present: Of our

and obliges us to compare the instances of the violations of truth in the testimony of men with those of the violation of the laws of nature by miracles, in order to judge which of them is most likely and probable. As the violations of truth are more common in the testimony concerning religious miracles than in that concerning any other matter of fact; this must diminish very much the authority of the former testimony, and make us form a general resolution never to lend any attention to it, with whatever specious pretext it may be cover'd.

My Lord Bacon seems to have embrac'd the same principles of reasoning, *Facienda enim est congeries sive historia naturalis particularis omnium monstrorum & partium naturæ prodigioforum; omnis denique novitatis & raritatis & inconsueti in natura. Hoc vero faciendum est cum severissimo delectu, ut constet fides. Maxime autem habenda sunt pro suspectis quæ pendent quomodocunque ex religione, ut prodigia Levii: Nec minus quæ inveniuntur in scriptoribus magicæ naturalis, aut etiam alchymicæ, & hujusmodi hominibus; qui tanquam proci sunt & amatores fabularum.*

Nov. Organ. Lib. 2. Aph. 29.

fall from that state : Of the age of man, extended to near a thousand years : Of the destruction of the world by a deluge : Of the arbitrary choice of one people, as the favourites of heaven ; and that people, the countrymen of the author : Of their deliverance from bondage by prodigies the most astonishing imaginable : I desire any one to lay his hand upon his heart, and after serious consideration declare, whether he thinks, that the falshood of such a book, supported by such a testimony, would be more extraordinary and miraculous than all the miracles it relates ; which is, however, necessary to make it receiv'd, according to the measures of probability above establish'd.

WHAT we have said of miracles may be apply'd, without any variation, to prophecies ; and indeed, all prophecies are real miracles, and as such only, can be admitted as proofs of any revelation. If it did not exceed the capacity of human nature to foretell future events, it would be absurd to employ any prophecy as an argument for a divine mission or authority from heaven. So that, upon the whole, we may conclude, that the *Christian Religion*, not only was at first attended with miracles, but even at this day cannot be believ'd by any reasonable person without one. Mere reason is insufficient to convince us of its veracity :

city : And whoever is mov'd by *Faith* to assent to it is conscious of a continued miracle in his own person, which subverts all the principles of his understanding, and gives him a determination to believe what is most contrary to custom and experience.



E S S A Y X I.

Of a PARTICULAR PROVIDENCE and of a FUTURE STATE.

I WAS lately engag'd in conversation with a friend, who loves sceptical paradoxes; where, tho' he advanc'd many principles, of which I can by no means approve, yet as they seem to be curious, and to bear some relation to the chain of reasoning carry'd on thro' these essays, I shall here copy them from my memory as accurately as I can, in order to submit them to the judgment of the reader.

OUR conversation began with my admiring the singular good fortune of philosophy, which, as it requires intire liberty, above all other privileges, and flourishes chiefly from the free opposition of sentiments and argumentation, receiv'd its first birth in an age and country of freedom and toleration, and



was never cramp'd, even in its most extravagant principles, by any creeds, confessions, or penal statutes. For except the banishment of *Protagoras*, and the death of *Socrates*, which last event proceeded partly from other motives, there are scarce any instances to be met with, in antient history, of this bigotted jealousy and persecution, with which the present age is so much infested. *Epicurus* liv'd at *Athens* to an advanc'd age, in peace and tranquility: *Epicureans* * were even admitted to receive the sacerdotal character, and to officiate at the altar, in the most sacred rites of the established religion: And the public encouragement † of pensions and salaries was afforded equally, by the wisest of all the *Roman* emperors ‡, to the professors of every sect of philosophy. How requisite such kind of treatment was to philosophy, in its first origin, will easily be conceiv'd, if we reflect, that even at present, when it may be suppos'd more hardy and robust, it bears with much difficulty the inclemency of the seasons, and those harsh winds of calumny and persecution, which blow upon it.

You admire, says my friend, as the singular good-fortune of philosophy, what seems to result from the natural course of things, and to be unavoidable in every age and nation. This pertinacious bigotry,

* *Luciani* σιμπ. §, λαμβαναι.

† *Id.* ενταχες.

‡ *Id.* & *Dio.*

of which you complain, as so fatal to philosophy, is really her offspring, who, after allying with superstition, separates himself intirely from the interest of his parent, and becomes her most inveterate enemy and persecutor: Speculative dogmas and principles of religion, the present occasions of such furious dispute, could not possibly be conceiv'd or admitted in the early ages of the world; when mankind, being wholly illiterate, form'd an idea of religion, more suitable to their weak apprehension, and compos'd their sacred tenets chiefly of such tales and stories as were the objects of traditional belief, more than of argument or disputation. After the first alarm, therefore, was over, which arose from the new paradoxes and principles of the philosophers; these teachers seem, ever after, during the ages of antiquity, to have liv'd in great harmony with the establish'd superstitions, and to have made a fair partition of mankind betwixt them; the former claiming all the learned and the wise, and the latter possessing all the vulgar and illiterate.

IT seems then, says I, that you leave politics intirely out of the question, and never suppose, that a wise magistrate can justly be jealous of certain tenets of philosophy, such as those of *Epicurus*, which denying a divine existence, and consequently a providence and a future state, seem to loosen, in a great measure, the
the

the ties of morality, and may be suppos'd, for that reason, pernicious to the peace of civil society.

I KNOW, reply'd he, that in fact these persecutions never, in any age, proceeded from calm reason, or any experience of the pernicious consequences of philosophy; but arose intirely from passion and prejudice. But what if I should advance farther, and assert, that if *Epicurus* had been accus'd before the people, by any of the *sycephants* or informers of those days, he could easily have defended his cause, and prov'd his principles of philosophy to be as salutary as those of his adversaries, who endeavour'd, with such zeal, to expose him to the public hatred and jealousy?

I WISH, said I, you would try your eloquence upon so extraordinary a topic, and make a speech for *Epicurus*, which might satisfy, not the mob of *Athens*, if you will allow that antient and polite city to have contain'd any mob, but the more philosophical part of his audience, such as might be suppos'd capable of comprehending his arguments.

THE matter would not be difficult, upon such conditions, reply'd he: And if you please, I shall suppose myself *Epicurus* for a moment, and make you stand for the *Athenian* people, and shall give you such

an harangue as will fill all the urn with white beans, and leave not a black one to gratify the malice of my adversaries.

VERY well: Pray proceed upon these suppositions.

I COME hither, O ye *Athenians*, to justify in your assembly what I maintain'd in my school, and find myself impeach'd by furious antagonists, instead of reasoning with calm and dispassionate enquirers. Your deliberations, which of right should be directed to questions of public good and the interest of the commonwealth, are diverted to the disquisitions of speculative philosophy; and these magnificent, but, perhaps, fruitless enquiries, take place of your more familiar but more useful occupations. But so far as in me lies, I will prevent this abuse. We shall not here dispute concerning the origin and government of worlds. We shall only enquire how far such questions concern the public interest. And if I can persuade you, that they are intirely indifferent to the peace of society and security of government, I hope that you will presently send us back to our schools, there to examine at leisure the question the most sublime, but, at the same time, the most speculative of all philosophy.

YOUR

THE religious philosophers, not satisfy'd with the tradition of your forefathers, and doctrines of your priests (in which I willingly acquiesce) indulge a rash curiosity, in trying how far they can establish religion upon the principles of reason; and they thereby excite, instead of satisfying the doubts, which naturally arise from a diligent and scrupulous enquiry. They paint, in the most magnificent colours, the order, beauty, and wise arrangement of the universe; and then ask, if such a glorious display of intelligence and wisdom could proceed from the fortuitous concurrence of atoms, or if chance could produce what the highest genius can never sufficiently admire. I shall not examine the justness of this argument. I shall allow it to be as solid as my antagonists and accusers can desire. 'Tis sufficient, if I can prove, from this very reasoning, that the question is intirely speculative, and that when, in my philosophical disquisitions, I deny a providence and a future state, I undermine not the foundations of society and government, but advance principles, which they themselves, upon their own topics, if they argue consistently, must allow to be solid and satisfactory.

You then, who are my accusers, have acknowledged, that the chief or sole argument for a divine existence (which I never question'd) is deriv'd from the order of nature; where there appear such marks
of

of intelligence and design, that you think it extravagant to assign for its cause, either chance, or the blind and unguided force of matter. You allow, that this is an argument, drawn from effects to causes. From the order of the work, you infer, that there must have been project and forethought in the workman. If you cannot make out this point, you allow, that your conclusion fails; and you pretend not to establish the conclusion in a greater latitude than the phenomena of nature will justify. These are your concessions. I desire you to mark the consequences.

WHEN we infer any particular cause from an effect, we must proportion the one to the other, and can never be allow'd to ascribe to the cause any qualities, but what are exactly sufficient to produce the effect. A body of ten ounces rais'd in any scale may serve as a proof, that the counter-ballancing weight exceeds ten ounces; but can never afford a reason, that it exceeds a hundred. If the cause, assign'd for any effect, be not sufficient to produce it, we must either reject that cause, or add to it such qualities as will give it a just proportion to the effect. But if we ascribe to it farther qualities, or affirm it capable of producing other effects, we can only indulge the licence of conjecture, and arbitrarily suppose the existence of qualities and energies, without reason or authority.

THE same rule holds, whether the cause assign'd be brute unconscious matter or a rational intelligent being. If the cause be known only by the effect, we never ought to assign to it any qualities, beyond what are precisely requisite to produce the effect; nor can we, by any rules of just reasoning, return back from the cause, and infer other effects from it, beyond those by which alone it is known to us. No one, merely from the sight of one of *Zeuxis's* pictures, could know, that he was also a statuary or architect, and was an artist no less skilful in stone and marble than in colours. The talents and taste display'd in the particular work before us; these we may safely conclude the workman to be possess'd of. The cause must be proportion'd to the effect: And if we exactly and precisely proportion it, we shall never find in it any qualities that point farther, or afford an inference concerning any other design or performance. Such qualities must be somewhat beyond what is merely requisite to produce the effect, which we examine.

ALLOWING, therefore, the gods to be the authors of the existence or order of the universe; it follows, that they possess that precise degree of power, intelligences, and benevolence, which appears in their workmanship; but nothing farther can ever be prov'd, except

except we call in the assistance of exaggeration and flattery to supply the defects of argument and reasoning. So far as the traces of any attributes, at present, appear, so far may we conclude these attributes to exist. The supposition of farther attributes is mere hypothesis; much more, the supposition, that, in distant periods of place and time, there has been, or will be a more magnificent display of these attributes, and a scheme or order of administration more suitable to such imaginary virtues. We can never be allow'd to mount up from the universe, the effect, to *Jupiter*, the cause; and then descend downwards, to infer any new effect from that cause; as if the present effects alone were not intirely worthy of the glorious attributes which we ascribe to that deity. The knowlege of the cause being deriv'd solely from the effect, they must be exactly adjusted to each other, and the one can never point towards any thing farther, or be the foundation of any new inference and conclusion.

You find certain phænomena in nature. You seek a cause or author. You imagine that you have found him. You afterwards become so enamour'd of this offspring of your brain, that you imagine it impossible but he must produce something greater and more perfect than the present scene of things, which is so full of ill and disorder. You forget, that this

superlative intelligence and benevolence are entirely imaginary, or at least, without any foundation in reason, and that you have no ground to ascribe to him any qualities, but what you see he has actually exerted and display'd in his productions. Let your gods, therefore, O philosophers, be suited to the present appearances of nature: And presume not to alter these appearances by arbitrary suppositions, in order to suit them to the attributes, which you so fondly ascribe to your deities.

WHEN priests and poets, supported by your authority, O *Athenians*, talk of a golden or a silver age, which preceded the present scene of vice and misery, I hear them with attention and with reverence. But when philosophers, who pretend to neglect authority, and to cultivate reason, hold the same discourse, I pay them not, I own, the same obsequious submission and pious deference. I ask: Who carry'd them into the celestial regions, who admitted them into the councils of the gods, who open'd to them the book of fate, that they thus rashly affirm that their deities have executed, or will execute, any purpose, beyond what has actually appear'd? If they tell me, that they have mounted on the steps or by the gradual ascent of reason, and by drawing inferences from effects to causes, I still insist, that they have aided the ascent of reason by the wings

wings of imagination ; otherwife they could not thus change their manner of inference, and argue from caufes to effects ; prefuming, that a more perfect production than the prefent world would be more fuitable to fuch perfect beings as the gods, and forgetting, that they have no reafon to afcribe to thefe celeftial beings any perfection or any attribute, but what can be found in the prefent world.

HENCE all the fruitlefs induftry to account for the ill appearances of nature, and fave the honour of the gods ; while we muft acknowledge the reality of that evil and diforder, with which the world fo much abounds. The obftinate and intractable qualities of matter, we are told, or the obfervance of general laws, or fome fuch reafon is the fole caufe, which controul'd the power and benevolence of *Jupiter*, and oblig'd him to create mankind and every fenfible creature fo imperfect and fo unhappy. Thefe attributes, then, are, it feems, beforehand, taken for granted, in their greateft latitude. And upon that fuppoftition, I own, that fuch conjectures may, perhaps, be admitted as plaufible folutions of the ill phenomena. But ftill I afk ; Why take thefe attributes for granted, or why afcribe to the caufe any qualities but what actually appear in the effect ? Why wretche your brain to juftify the courfe of nature upon fuppoftitions, which, for aught you know, may be en-

tirely

tirely imaginary, and of which there are to be found no traces in the course of nature ?

THE religious hypothesis, therefore, must be consider'd only as a particular method of accounting for the visible phænomena of the universe : But no just reasoner will ever presume to infer from it any single fact, and alter or add to the phænomena, in any single particular. If you think, that the appearances of things prove such causes, 'tis allowable for you to draw an inference concerning the existence of these causes. In such complicated and sublime subjects, every one should be indulged in the liberty of conjecture and argument. But here you ought to rest. If you come backward, and arguing from your infer'd causes, conclude, that any other fact has existed, or will exist, in the course of nature, which may serve for a fuller display of particular attributes ; I must admonish you, that you have departed from the method of reasoning, attach'd to the present subject, and must certainly have added something to the attributes of the cause, beyond what appears in the effect ; otherwise you could never, with tolerable sense or propriety, add any thing to the effect, in order to render it more worthy of the cause.

WHERE, then, is the odiousness of that doctrine, which I teach in my school, or rather, which I examine

amine in my gardens? Or what do you find in this whole question, wherein the security of good morals, or the peace and order of society is in the least concern'd?

I DENY a providence, you say, and supreme governor of the world, who guides the course of events, and punishes the vicious with infamy, and disappointment, and rewards the virtuous with honour and success, in all their undertakings. But surely, I deny not the course itself of events, which lies open to every one's enquiry and examination. I acknowledge, that, in the present order of things, virtue is attended with more peace of mind than vice; and meets with a more favourable reception from the world. I am sensible, that, according to the past experience of mankind, friendship is the chief joy of human life, and moderation the only source of tranquility and happiness. I never ballance betwixt the virtuous and the vicious course of life; but am sensible, that, to a well-dispos'd mind, every advantage is on the side of the former. And what can you say more, allowing all your suppositions and reasonings? You tell me, indeed, that this disposition of things proceeds from intelligence and design. But whatever it proceeds from, the disposition itself, on which depends our happiness or misery, and consequently our conduct and deportment in

in life, is still the same. 'Tis still open for me, as well as you, to regulate my behaviour, by my experience of past events. And if you affirm, that, while a divine providence is allow'd, and a supreme distributive justice in the universe, I ought to expect some more particular reward of the good, and punishment of the bad, beyond the ordinary course of events; I here find the same fallacy, which I have before endeavour'd to detect. You persist in imagining, that, if we grant that divine existence, for which you so earnestly contend, you may safely infer consequences from it, and add something to the experienc'd order of nature, by arguing from the attributes, which you ascribe to your gods. You seem not to remember, that all your reasonings on this subject can only be drawn from effects to causes; and that every argument, deduc'd from causes to effects, must of necessity be a gross sophism; since it is impossible for you to know any thing of the cause, but what you have antecedently, not infer'd, but discover'd to the full, in the effect.

BUT what must a philosopher judge of those vain reasoners, who, instead of regarding the present scene of things, as the sole object of their contemplation, so far reverse the whole course of nature, as to render this life merely a passage to something farther; a porch, which leads to a greater, and
vastly

vastly different building; a prologue, which serves only to introduce the piece and give it more grace and propriety? Whence, do you think, can such philosophers derive their idea of the gods? From their own conceit and imagination surely. For if they deriv'd it from the present phænomena; it would never point to any thing farther, but must be exactly adjusted to them. That the divinity may *possibly* possess attributes, which we have never seen exerted; may be govern'd by principles of action, which we cannot discover to be satisfy'd: All this will freely be allow'd. But still this is mere *possibility* and hypothesis. We never can have reason to *infer* any attributes, or any principles of action in him, but so far as we know them to have been exerted and satisfy'd.

Are there any marks of a distributive justice in the world? If you answer in the affirmative, I conclude, that, since justice here exerts itself, it is satisfy'd. If you reply in the negative, I conclude, that you have then no reason to ascribe justice to the gods. If you hold a medium betwixt affirmation and negation, by saying, that the justice of the gods, at present, exerts itself in part, but not in its full extent; I answer, that you have no reason to give it any particular extent, but only so far as you see it, *at present*, exert itself.

THUS I bring the dispute, O *Athenians*, to a short issue with my antagonists. The course of nature lies open to my contemplation as well as theirs. The experienc'd train of events is the great standard, by which we all regulate our conduct. Nothing else can be appealed to in the field, or in the senate. Nothing else ought ever to be heard of, in the school, or in the closet. In vain, would our limited understandings break thro' those bounds, which are too narrow for our fond imaginations. While we argue from the course of nature, and infer a particular intelligent cause, which first bestow'd, and still preserves order in the universe, we embrace a principle, which is both uncertain and useless. 'Tis uncertain; because the subject lies entirely beyond the reach of human experience. 'Tis useless; because our knowledge of this cause being deriv'd entirely from the course of nature, we can never, according to the rules of just reasoning, return back from the cause with any new inferences, or making additions to the common and experienc'd course of nature, establish any new principles of conduct and behaviour.

I OBSERVE, (says I, finding he had finish'd his harangue) that you neglect not the artifice of the demagogues of old; and as you was pleas'd to make me stand for the people, you insinuate yourself into

my favour, by embracing those principles, to which, you know, I have always express'd a particular attachment. But allowing you to make experience (as indeed I think you ought) the only standard of our judgment concerning this, and all other questions of fact; I doubt not but, from the very same experience, to which you appeal, it may be possible to refute this reasoning, which you have put into the mouth of *Epicurus*. If you saw, for instance, a half-finish'd building surrounded with heaps of brick and stone and mortar, and all the instruments of masonry; could you not *infer* from the effect, that it was a work of design and contrivance? And could you not return again, from this infer'd cause, to infer new additions to the effect, and conclude, that the building would soon be finish'd, and receive all the farther improvements, which art could bestow upon it? If you saw, upon the sea shore, the print of one human foot, you would conclude, that a man had pass'd that way, and that he had also left the traces of the other foot, tho' effac'd by the rolling of the sands or inundation of the waters. Why then do you refuse to admit the same method of reasoning with regard to the order of nature? Consider the world and the present life only as an imperfect building, from which you can infer a superior intelligence; and arguing from that superior intelligence, which can leave nothing imperfect; why may you not infer a more si-

nish'd scheme or plan, which will receive its completion in some distant period of space or time? Are not these methods of reasoning *exactly* parallel? And under what pretext, can you embrace the one, while you reject the other?

THE infinite difference of the subjects, reply'd he, is a sufficient foundation for this difference in my arguments and conclusions. In works of *human* art and contrivance, 'tis allowable to advance from the effect to the cause, and returning back from the cause, form new inferences concerning the effect, and examine the alterations, which it has probably undergone, or may still undergo. But what is the foundation of this method of reasoning? Plainly this; that man is a being, whom we know by experience, whose motives and designs we are acquainted with, and whose projects and inclinations have a certain connexion and coherence, according to the laws, which nature has establish'd for the government of such a creature. When, therefore, we find, that any work has proceeded from the skill and industry of man; as we are otherwise acquainted with the nature of the animal; we can draw a hundred inferences concerning what may be expected from him; and these inferences will all be founded on experience and observation. But did we know man only from the single work or production, which we examine,

'twere impossible for us to argue in this manner; because our knowledge of all the qualities, which we ascribe to him, being in that case deriv'd from the production, 'tis impossible they could point to any thing farther, or be the foundation of any new inferences. The print of a foot in the sand can only prove, when consider'd alone, that there was some figure adapted to it, by which it was produc'd: But the print of a human foot proves likewise, from our other experience, that there was probably another foot, which also left its impression, tho' effac'd by time or other accidents. Here we mount from the effect to the cause; and descending again from the cause, infer alterations in the effect; but this is not a continuation of the same simple chain of reasoning. We comprehend in this case a hundred other experiences and observations, concerning the *usual* figure and members of that species of animal, without which this method of argument must be consider'd as altogether fallacious and sophistical.

THE case is not the same with our reasonings from the works of nature. The Deity is known to us only by his productions, and is a single being in the universe, not comprehended under any species or genus, from whose experienc'd attributes or qualities, we can, by analogy, infer any attribute or quality in him. As the universe shews wisdom and

goodness, we infer wisdom and goodness: As it shows a particular degree of these perfections, we infer a particular degree of them, precisely adapted to the effect, which we examine. But farther attributes or farther degrees of the same attributes, we can never be authoriz'd to infer or suppose, by any rules of just reasoning. Now without some such licence of supposition, 'tis impossible for us to argue from the cause, or infer any alteration in the effect, beyond what has immediately fallen under our observation. Greater good produc'd by this Being must still prove a greater degree of goodness: More impartial distribution of rewards and punishments must proceed from a superior regard to justice and equity. Every suppos'd addition to the works of nature makes an addition to the attributes of the author of nature; and consequently, being altogether unsupported by any reason or argument, can never be admitted but as mere conjecture and hypothesis.*

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* In general, it may, I think, be establish'd as a maxim, that where any cause is known only by its particular effects, it must be impossible to infer any new effects from that cause; since the qualities, which are requisite to produce these new effects, along with the former, must either be different, or superior, or of more extensive operation, than those which simply produc'd the effect, whence alone the cause is suppos'd to be known to us. We can never, therefore, have any reason to suppose the existence of these qualities. To say that the new effects proceed only from a continuation of the same energy, which is already known from the first effects,

THE great source of our mistake in this subject, and of the unbounded licence of conjecture, which we indulge, is, that we tacitly consider ourselves, as in the place of the supreme Being, and conclude, that he will, on every occasion, observe the same conduct, which we ourselves, in his situation, would have embrac'd as reasonable and eligible. But besides, that the ordinary course of nature may convince us, that almost every thing is regulated by principles and maxims very different from ours; besides this, I say, it must evidently appear contrary to all rule of analogy to reason from the intentions and projects, of men to those of a being so different, and so much superior. In human nature, there is a certain experienc'd consistency and coherence of designs and inclinations; so that when, from any facts, we have discover'd one aim or intention of any man, it may often be reasonable, from experience, to infer another, and draw a long chain of conclusions concerning his past or future conduct. But this method of

facts, will not remove the difficulty. For even granting this to be the case, (which can seldom be suppos'd) the very continuation and exertion of a like energy (for 'tis impossible it can be absolutely the same) I say, this exertion of a like energy in a different period of space and time is a very arbitrary supposition, and what there cannot possibly be any traces of in the effects, from which all our knowledge of the cause is originally deriv'd. Let the *infer'd* cause be exactly proportion'd (as it should be) to the known effect; and 'tis impossible that it can possess any qualities, from which new or different effects can be *infer'd*.

reasonings, but what must be of dangerous consequence to the sciences, and even to the state, by paving the way for persecution and oppression in points, where the generality of mankind are more deeply interested and concern'd.

BUT there occurs to me, (continu'd I) with regard to your main topic, a difficulty, which I shall just propose to you, without insisting on it, lest it lead into reasonings of too nice and delicate a nature. In a word, I much doubt whether it be possible for a cause to be known only by its effect (as you have all along suppos'd) or to be of so singular and particular a nature as to have no parallel and no similarity with any other cause or object, that has ever fallen under our observation. 'Tis only when two *species* of objects are found to be constantly conjoin'd, that we can infer the one from the other; and were an effect presented, which was entirely singular, and could not be comprehended under any known *species*; I do not see, that we could form any conjecture or inference at all concerning its cause. If experience and observation and analogy be, indeed, the only guides which we can reasonably follow in inferences of this nature; both the effect and cause must bear a similarity and resemblance to other effects and causes which we know, and which we have found in many instances, to be conjoin'd with each other.

other. I leave it to your own reflections to prosecute the consequences of this principle. I shall just observe, that as the antagonists of *Epicurus* always suppose the universe, an effect quite singular and unparallel'd, to be the proof of a Deity, a cause no less singular and unparallel'd; your reasonings, upon that supposition, seem, at least, to merit our attention. There is, I own some difficulty, how we can ever return from the cause to the effect, and reasoning from our ideas of the former, infer any alteration on the latter, or any addition to it.



E S S A Y XII.

*Of the ACADEMICAL or SCEPTICAL
PHILOSOPHY.*

P A R T I.

THERE is not a greater number of philosophical reasonings, display'd upon any subject, than those, which prove the existence of a Deity, and refute the fallacies of *Atheists*; and yet the most religious philosophers still dispute whether any man can be so blinded as to be a speculative atheist. How shall we reconcile these contradictions? The knight-errants, who wander'd about to clear the world of dragons and giants, never entertain'd the least doubt concerning the existence of these monsters.

THE *Sceptic* is another enemy of religion, who naturally provokes the indignation of all divines and
graver

graver philosophers ; tho' 'tis certain, that no one ever met with any such absurd creature, or convers'd with a man, who had no opinion or principle concerning any subject, either of action or speculation. This begets a very natural question ; What is meant by a sceptic ? And how far it is possible to push these philosophical principles of doubt and uncertainty ?

THERE is a species of scepticism, *antecedent* to all study and philosophy, which is much inculcated by *Des Cartes* and others, as a sovereign preservative against error and precipitate judgment. It recommends an universal doubt, not only of all our former opinions and principles, but also of our very faculties ; of whose veracity, say they, we must assure ourselves, by a chain of reasoning, deduc'd from some original principle, which cannot possibly be fallacious or deceitful. But neither is there any such original principle, which has a prerogative above others, that are self-evident and convincing : Or if there were, could we advance a step beyond it but by the use of those very faculties, of which we are suppos'd to be already diffident. The *Cartesian* doubt, therefore, were it ever possible to be attain'd by any human creature (as it plainly is not) would be altogether incurable ; and no reasoning could ever bring us to a state of assurance and conviction upon any subject.

It must, however, be confess'd, that this species of scepticism, when more moderate, may be understood in a very reasonable sense, and is a necessary preparative to the study of philosophy, by preserving a proper impartiality in our judgments, and weaning our minds from all those prejudices, which we may have imbib'd from education or rash opinion. To begin with clear and self-evident principles, to advance by timorous and sure steps, to review frequently our conclusions, and examine accurately all their consequences; tho' by this means we shall make both a slow and a short progress in our systems; are the only methods, by which we can ever hope to reach truth, and attain a proper stability and certainty in our determinations.

THERE is another species of scepticism, *consequent* to science and enquiry; where men are suppos'd to have discover'd, either the absolute fallaciousness of their mental faculties, or their unfitness to reach any fix'd determination in all those curious subjects of speculation, about which they are commonly employ'd. Even our very senses are brought into dispute by a certain species of philosophers; and the maxims of common life are subjected to the same doubt as the most profound principles or conclusions of metaphysics and theology. As these paradoxical tenets (if they may be call'd tenets) are to be met
with

with in some philosophers, and the refutation of them in several, they naturally excite our curiosity, and make us enquire into the arguments, on which they may be founded.

I NEED not insist upon the more trite topics, employ'd by the sceptics in all ages, against the evidence of *sense*; such as those deriv'd from the imperfection and fallaciousness of our organs, on numberless occasions; the crooked appearance of an oar in water; the various aspects of objects, according to their different distances; the double images, which arise from the pressing one eye; with many other appearances of the like nature. These sceptical topics, indeed, are only sufficient to prove, that the senses alone are not implicitly to be depended on; but that we must correct their evidence by reason, and by considerations, deriv'd from the nature of the medium, the distance of the object, and the disposition of the organ, in order to render them, within their sphere, the proper *criteria* of truth and falshood. There are other more profound arguments against the senses, which admit not of so easy a solution.

It seems evident, that men are carry'd, by a natural instinct or prepossession, to repose faith in their senses; and that, without any reasoning, or even almost before the use of reason, we always suppose an
exter-

external universe, which depends not on our perception, but would exist, tho' we and every sensible creature were absent or annihilated. Even the animal creation are govern'd by a like opinion, and preserve this belief of external objects, in all their thoughts, designs, and actions.

It seems also evident, that when men follow this blind and powerful instinct of nature, they always suppose the very images, presented by the senses, to be the external objects, and never entertain any suspicion, that the one are nothing but representations of the other. This very table, which we see white, and which we feel hard, is believ'd to exist, independent of our perception, and to be something external to our mind, which perceives it. Our presence bestows not being on it: Our absence annihilates it not. It preserves its existence, uniform and entire, independent of the situation of intelligent beings, who perceive or contemplate it.

BUT this universal and primary opinion of all men is soon destroy'd by the slightest philosophy, which teaches us, that nothing can ever be present to the mind but an image or perception, and that the senses are only the inlets, thro' which these images are receiv'd, without being ever able to produce any intercourse betwixt the mind and the object. The table,

ble, which we see, seems to diminish as we remove farther from it : But the real table, which exists independent of us, suffers no alteration : It was, therefore, nothing but its image, which was present to the mind. These are the obvious dictates of reason ; and no man, who reflects, ever doubted, that the existences, which we consider, when we say, *this house* and *that tree*, are nothing but perceptions in the mind, and fleeting copies or representations of other existences, which remain uniform and independent.

So far, then, are we necessitated by reasoning to contradict or depart from the primary instincts of nature, and embrace a new system with regard to the evidence of our senses. But here philosophy finds itself extremely embarrass'd, when it would justify this new system, and obviate the cavils and objections of the sceptics. It can no longer plead the infallible and irresistible instinct of nature : For that led us to a quite different system, which is acknowledged fallible and even erroneous. And to justify this pretended philosophical system, by a chain of clear and convincing argument, or even any appearance of argument, exceeds the power of all human capacity.

By what argument can it be prov'd, that the perceptions of the mind must be caus'd by external objects,

jects, entirely different from them, tho' resembling them (if that be possible) and could not arise either from the energy of the mind itself, or from the suggestion of some invisible and unknown spirit, or from some other cause still more unknown to us? 'Tis acknowleg'd, that, in fact, many of these perceptions arise not from any thing external, as in dreams, madness, and other diseases. And nothing can be more inexplicable than the manner, in which body should so operate upon mind as ever to convey an image of itself to a substance suppos'd of so different, and even contrary a nature.

'Tis a question of fact, whether the perceptions of the senses be produc'd by external objects, resembling them: How shall this question be determin'd? By experience surely; as all other questions of a like nature. But here experience is, and must be entirely silent. The mind has never any thing present to it but the perceptions, and cannot possibly reach any experience of their connexion with objects. The supposition of such a connexion is, therefore, without any foundation in reasoning.

To have recourse to the veracity of the supreme Being, in order to prove the veracity of our senses, is surely making a very unexpected circuit. If his veracity were at all concern'd in this matter, our
senses

senses would be entirely infallible ; because it is not possible that he can ever deceive. Not to mention, that if the external world be once call'd in doubt, we shall be at a loss to find arguments, by which we may prove the existence of that Being or any of his attributes.

THIS is a topic, therefore, in which the profounder and more philosophical sceptics will always triumph, when they endeavour to introduce an universal doubt into all subjects of human knowledge and enquiry. Do you follow the instincts and propensities of nature, may they say, in assenting to the veracity of sense ? But these lead you to believe, that the very perception or sensible image is the external object. Do you disclaim this, in order to embrace a more rational principle, that the perceptions are only representations of something external ? You here depart from your natural propensities and more obvious sentiments ; and yet are not able to satisfy your reason, which can never find any convincing argument from experience to prove, that the perceptions are connected with any external objects.

THERE is another sceptical topic of a like nature, deriv'd from the most profound philosophy ; which might merit our attention were it requisite to dive so deep, in order to discover arguments and reasonings,

reasonings, which can serve so little any serious purpose or intention. 'Tis universally allow'd by modern enquirers, that all the sensible qualities of objects, such as hard, soft, hot, cold, white, black, &c. are merely secondary, and exist not in the objects themselves, but are perceptions of the mind, without any external archetype or model, which they represent. If this be allow'd, with regard to secondary qualities, it must also follow with regard to the suppos'd primary qualities of extension and solidity; nor can the latter be any more entitled to that denomination than the former. The idea of extension is entirely acquir'd from the senses of sight and feeling; and if all the qualities, perceiv'd by the senses, be in the mind, not in the object, the same conclusion must reach the idea of extension, which is wholly dependent on the sensible ideas or the ideas of secondary qualities. Nothing can save us from this conclusion, but the asserting, that the ideas of those primary qualities are attain'd by *Abstraction*; which, if we examine accurately, we shall find to be unintelligible, and even absurd. An extension, that is neither tangible nor visible, cannot possibly be conceiv'd: And a tangible or visible extension, which is neither hard nor soft, black nor white, is equally beyond the reach of human conception. Let any man try to conceive a triangle in general, which is neither *Isoſcles*, nor *Scalenum*, nor has any particular length
nor

nor proportion of fides; and he will soon perceive the absurdity of all the scholastic notions with regard to abstraction and general ideas *.

THUS the first philosophical objection to the evidence of sense or to the opinion of external existence consists in this, that such an opinion, if rested on natural instinct, is contrary to reason, and if refer'd to reason, is contrary to natural instinct, and at the same time, carries no rational evidence with it, to convince an impartial enquirer. The second objection goes farther, and represents this opinion as contrary to reason; at least, if it be a principle of reason, that all sensible qualities are in the mind, not in the object.

P A R T II.

IT may seem a very extravagant attempt of the sceptics to destroy *reason* by argument and ratioci-

* This argument is drawn from Dr. *Berkley*; and indeed most of the writings of that very ingenious author form the best lessons of scepticism, which are to be found either among the antient or modern philosophers, *Bayle* not excepted. He professes, however, in his title-page (and undoubtedly with great truth) to have compos'd his book against the sceptics as well as against the atheists and free-thinkers. But that all his arguments, tho' otherwise intended, are, in reality, merely sceptical, appears from this, *that they admit of no answer and produce no conviction*. Their only effect is to cause that momentary amazement and irresolution and confusion, which is the result of scepticism.

gation;

nation ; yet is this the grand scope of all their enquiries and disputes. They endeavour to find objections, both to our abstract reasonings, and to those which regard matter of fact and existence.

THE chief objection against all *abstract* reasonings is deriv'd from the nature of space and time, ideas, which, in common life and to a careless view, are very clear and intelligible, but when they pass thro' the scrutiny of the profound sciences (and they are the chief object of these sciences) afford principles which seem full of absurdity and contradiction. No priestly *dogmas*, invented on purpose to tame and subdue the rebellious reason of mankind, ever shock'd common sense more than the doctrine of the infinite divisibility of extension, with its consequences ; as they are pompously display'd by all geometricians and metaphysicians, with a kind of triumph and exultation. A real quantity, infinitely less than any finite quantity, containing quantities, infinitely less than itself, and so on, *in infinitum* ; this is an edifice so bold and prodigious, that it is too weighty for any pretended demonstration to support, because it shocks the clearest and most natural principles of human reason *. But what renders the matter more extraordinary,

* Whatever disputes there may be about mathematical points, we must allow that there are physical points ; that is, parts of extension, which cannot be divided or lessen'd, either

ordinary, is, that these seemingly absurd opinions are supported by a chain of reasoning, the clearest and most natural; nor is it possible for us to allow the premises, without admitting the consequences. Nothing can be more convincing and satisfactory than all the conclusions concerning the properties of circles and triangles; and yet, when these are once receiv'd, how can we deny, that the angle of contact betwixt a circle and its tangent is infinitely less than any rectilineal angle, that as you may encrease the diameter of the circle *in infinitum*, this angle of contact becomes still less, even *in infinitum*, and that the angle of contact betwixt other curves and their tangents may be infinitely less than those betwixt any circle and its tangent, and so on, *in infinitum*? The demonstration of these principles seems as unexceptionable as that which proves the three angles of a triangle to be equal to two right ones; tho' the latter opinion be natural and easy, and the former big with contradiction and absurdity. Reason here seems to be thrown into a kind of amazement and suspense, which, without the suggestions of any sceptic, gives her a diffidence of herself, and of the

either by the eye or imagination. These images, then, which are present to the fancy or senses, are absolutely indivisible, and consequently must be allow'd by mathematicians to be infinitely less than any real part of extension; and yet nothing appears more certain to reason, than that an infinite number of them composes an infinite extension. How much more an infinite number of those infinitely small parts of extension, which are still suppos'd infinitely divisible?

ground

ground on which he treads. She sees a full light, which illuminates certain places; but that light borders upon the most profound darkness. And betwixt these she is so dazzled and confounded, that she scarce can pronounce with certainty and assurance concerning any one object.

THE absurdity of these bold determinations of the abstract sciences seems to become, if possible, still more palpable with regard to time than extension. An infinite number of real parts of time, passing in succession, and exhausted one after another, appears so evident a contradiction, that no man, one should think, whose judgment is not corrupted, instead of being improv'd, by the sciences, would ever be able to admit of it.

YET still reason must remain restless and unquiet, even with regard to that scepticism, to which she is led by these seeming absurdities and contradictions. How any clear, distinct idea can contain circumstances, contradictory to itself, or to any other clear, distinct idea, is absolutely incomprehensible; and is, perhaps, as absurd as any proposition, which can be form'd. So that nothing can be more sceptical, or more full of doubt and hesitation, than this scepticism itself, which arises from some of the paradoxical

conclusions of geometry or the science of quantity*.

THE sceptical objections to *moral* evidence or to the reasonings concerning matter of fact are either *popular* or *philosophical*. The popular objections are deriv'd from the natural weakness of human understanding; the contradictory opinions, which have been entertain'd in different ages and nations; the variations of our judgment in sickness and health, youth and old age, prosperity and adversity; the perpetual contradiction of each particular man's opinions and sentiments; with many other topics of

* It seems to me not impossible to avoid these absurdities and contradictions, if it be admitted, that there is no such thing as abstract or general ideas, properly speaking; but that all general ideas are, in reality, particular ones, attach'd to a general term, which recalls, upon occasion, other particular ones, that resemble, in certain circumstances, the idea, present to the mind. Thus when the term, Horse, is pronounc'd, we immediately figure to ourselves the idea of a black or a white animal of a particular size or figure: But as that term is also us'd to be apply'd to animals of other colours, figures and sizes, these ideas, tho' not actually present to the imagination, are easily recall'd, and our reasoning and conclusion proceed in the same way, as if they were actually present. If this be admitted (as seems reasonable) it follows that all the ideas of quantity, upon which mathematicians reason, are nothing but particular, and such as are suggested by the senses and imagination, and consequently, cannot be infinitely divisible: 'Tis sufficient to have dropt this hint at present, without prosecuting it any farther. It certainly concerns all lovers of science not to expose themselves to the ridicule and contempt of the ignorant by their conclusions; and this seems the readiest solution of these difficulties.

that kind. 'Tis needless to insist farther on this head. These objections are but weak. For as, in common life, we reason every moment concerning fact and existence, and cannot possibly subsist, without continually employing this species of argument, any popular objections, deriv'd from thence, must be insufficient to destroy that evidence. The great subverter of *Pyrrhonism*, or the excessive principles of scepticism, is action, and employment, and the occupations of common life. These principles may flourish and triumph in the schools; where it is, indeed, difficult, if not impossible to refute them. But as soon as they leave the shade, and by the presence of the real objects, which actuate our passions and sentiments, are put in opposition to the more powerful principles of our nature, they vanish like smoke, and leave the most determin'd sceptic in the same condition as other mortals.

THE sceptic, therefore, had better keep in his proper sphere, and display those *philosophical* objections, which arise from more profound researches. Here he seems to have ample matter of triumph; while he justly insists, that all our evidence for any matter of fact, which lies beyond the testimony of sense or memory, is deriv'd entirely from the relation of cause and effect; that we have no other idea of this relation than that of two objects, which have

been frequently *conjoin'd* together; that we have no arguments to convince us, that objects, which have, in our experience, been frequently conjoin'd, will likewise, in other instances, be conjoin'd in the same manner; and that nothing leads us to this inference but custom or a certain instinct of our nature; which it is indeed difficult to resist, but which, like other instincts, may be fallacious and deceitful. While the sceptic insists upon these topics, he shews his force, or rather, indeed, his own and our weakness; and seems, for the time at least, to destroy all assurance and conviction. These arguments might be display'd at greater length, if any durable good or benefit to society could ever be expected to result from them.

For here is the chief and most confounding objection to *excessive* scepticism, that no durable good can ever result from it; while it remains in its full force and vigour. We need only ask such a sceptic, *What his meaning is? And what he proposes by all these curious researches?* He is immediately at a loss, and knows not what to answer. A *Copernican* or *Ptolemaic*, who supports each his different system of astronomy, may hope to produce a conviction, which will remain, constant and durable, with his audience. A *Stoic* or *Epicurean* displays principles, which may not only be durable, but which have a mighty effect on conduct and behaviour. But a *Pyrrhonian* cannot propose,

propose, that his philosophy will have any constant influence on the mind : Or if it had, that its influence would be beneficial to society. On the contrary, he must acknowledge, if he will acknowledge any thing, that all human life must perish, were his principles universally and steadily to prevail. All discourse, all action wou'd immediately cease ; and men remain in a total lethargy, till the necessities of nature, unsatisfy'd, put an end to their miserable existence. 'Tis true ; so fatal an event is very little to be dreaded. Nature is always too strong for principle. And tho' a *Pyrrhonian* may throw himself or others into a momentary amazement and confusion by his profound reasonings ; the first and most trivial event in life will put to flight all his doubts and scruples, and leave him the same, in every point of action and speculation, with the philosophers of every other sect, or with those who never concern'd themselves in any philosophical researches. When he awakes from his dream, he will be the first to join in the laugh against himself, and to confess, that all his objections are mere amusements, and can have no other tendency than to show the whimsical condition of mankind, who must act and reason and believe ; tho' they are not able, by their most diligent enquiry, to satisfy themselves concerning the foundation of these operations, or to remove the objections, which may be rais'd against them.

P A R T III.

THERE is, indeed, a more *mitigated* scepticism or *academical* philosophy, which may be both durable and useful, and which may, in part, be the result of this *Pyrrhonism*, or *excessive* scepticism, when its undistinguish'd doubts are, in some measure, corrected by common sense and reflection. The greatest part of mankind are naturally apt to be affirmative and dogmatical in their opinions, and while they see objects only on one side, and have no idea of any counterpoizing arguments, they throw themselves precipitately into the principles, to which they are inclin'd; nor have they any indulgence for those who entertain opposite sentiments. To hesitate or balance perplexes their understanding, checks their passion, and suspends their actions. They are, therefore, impatient till they escape from a state, which to them is so uneasy; and they think, that they can never remove themselves far enough from it, by the violence of their affirmations and obstinacy of their belief. But could such dogmatical reasoners become sensible of the strange infirmities of human understanding, even in its most perfect state, and when most accurate and cautious in its determinations; such a reflection would naturally inspire them with more modesty and reserve, and diminish their fond opinion of themselves, and their prejudice against antagonists. The
illiterate

illiterate may reflect on the disposition of the learned, who, amidst all the advantages of study and reflection, are commonly still modest and reserv'd in their determinations: And if any of the learned are inclin'd, from their natural temper, to haughtiness and obstinacy, a small tincture of *Pyrrhonism* may abate their pride, by showing them, that the few advantages, which they may have attain'd over their fellows, are but inconsiderable, if compar'd with the universal perplexity and confusion, which is inherent in human nature. In general, there is a degree of doubt, and caution, and modesty, which, in all kinds of scrutiny and decision, ought for ever to accompany a just reasoner.

ANOTHER species of *mitigated scepticism*, which may be of advantage to mankind, and which may be the natural result of the *Pyrrhonian* doubts and scruples, is the limitation of our enquiries to such subjects as are best adapted to the narrow capacity of human understanding. The *imagination* of man is naturally sublime, delighted with whatever is remote and extraordinary, and running, without controul, into the most distant parts of space and time, in order to avoid the objects, which custom has render'd too familiar to it. A correct *Judgment* observes a contrary method; and avoiding all distant and high enquiries, confines itself to common life, and to such subjects

subjects as fall under daily practice and experience, leaving the more sublime topics to the embellishment of poets and orators, or to the arts of priests and politicians. To bring us to so salutary a determination, nothing can be more serviceable, than to be once thoroughly convinc'd of the force of the *Pyr-ronian* doubt, and of the impossibility of any thing, but the strong power of natural instinct, to free us from it. Those who have a propensity to philosophy, will still continue their researches; because they reflect, that, besides the immediate pleasure, attending such an occupation, philosophical decisions are nothing but the reflections of common life, methodiz'd and corrected. But they will never be tempted to go beyond common life, so long as they consider the imperfection of those faculties which they employ, their narrow reach, and their inaccurate operations. While we cannot give a satisfactory reason, why we believe after a thousand experiments, that a stone will fall, or fire burn; can we ever satisfy ourselves concerning any determinations which we may form with regard to the origin of worlds, and the situation of nature, from, and to eternity?

· THIS narrow limitation, indeed, of our enquiries, is, in every respect, so reasonable, that it suffices to make the slightest examination into the natural powers of the human mind, and compare them to their ob-

jects, in order to recommend it to us. We shall then find what are the proper subjects of science and enquiry.

It seems to me, that the only objects of the abstract sciences or of demonstration are quantity and number, and that all attempts to extend this more perfect species of knowledge beyond these bounds are mere sophistry and illusion. As the component parts of quantity and number are entirely similar, their relations become intricate and involv'd; and nothing can be more curious, as well as useful, than to trace, by a variety of mediums, their equality or inequality, thro' their different appearances. But as all other ideas are clearly distinct and different from each other, we can never advance farther, by all our scrutiny, than to observe this diversity, and, by an obvious reflection, pronounce one thing not to be another. Or if there be any difficulty in these decisions, it proceeds entirely from the undetermin'd meaning of words, which is corrected by juster definitions. That *the square of the Hypotenuse is equal to the squares of the other two sides*, cannot be known, let the terms be ever so exactly defin'd, without a train of reasoning and enquiry. But to convince us of this proposition, *that where there is no property, there can be no injustice*, 'tis only necessary to define the terms, and explain injustice to be a violation of property. This proposition is, indeed, nothing but a more imperfect

definition. 'Tis the same case with all those genuine syllogistical reasonings, which may be found in every other branch of learning, except the sciences of quantity and number; and these may safely, I think, be pronounc'd the only proper objects of knowledge and demonstration.

All other enquiries of men regard only matters of fact and existence; and these are evidently incapable of demonstration. Whatever *is* may not *be*. No negation of a fact can involve a contradiction. The non-existence of any being, without exception, is as clear and distinct an idea as its existence. The proposition, which affirms it not to be, however false, is no less conceivable and intelligible, than that which affirms it to be. The case is different with the sciences, properly so call'd. Every proposition, which is not true, is there confus'd and unintelligible. That the cube root of 64 is equal to the half of 16, is a false proposition, and can never be distinctly conceiv'd. But that *Cæsar*, or the angel *Gabriel*, or any being never exist'd, may be a false proposition, but still is perfectly conceivable, and implies no contradiction.

THE existence, therefore, of any being can never be prov'd by arguments from its cause or its effect, and these arguments are founded entirely on demonstration. If we reason *à priori*, any thing may

able to produce any thing. The falling of a pebble
may, for aught we know, extinguish the sun ; or the
death of a man controul the planets in their orbits.
It is only experience, which teaches us the nature
and bounds of cause and effect, and enables us to
infer the existence of one object from that of another.
Such is the foundation of moral reasoning,
which forms the greatest part of human knowledge,
and is the source of all human action and behaviour.

Moral reasonings are either concerning particular
or general facts. All deliberations in life regard
the former ; as also all disquisitions in history, chro-
nology, geography, and astronomy.

The sciences, which treat of general facts, are
politics, natural philosophy, physic, chymistry, &c.
where the qualities, causes, and effects of a whole
species of objects are enquir'd into.

HERENITY or Theology, as it proves the existence
of a Deity, and the immortality of souls, is com-
posed partly of reasoning of a particular,
partly concerning general nature.

That impious man
who said, *fit*, by
comes to be a maxim
and the will of the
for aught we know
nor create it, or an
the imagination can all

in *reason*, so far as it is supported by experience. But its best and most solid foundation is *faith* and divine revelation.

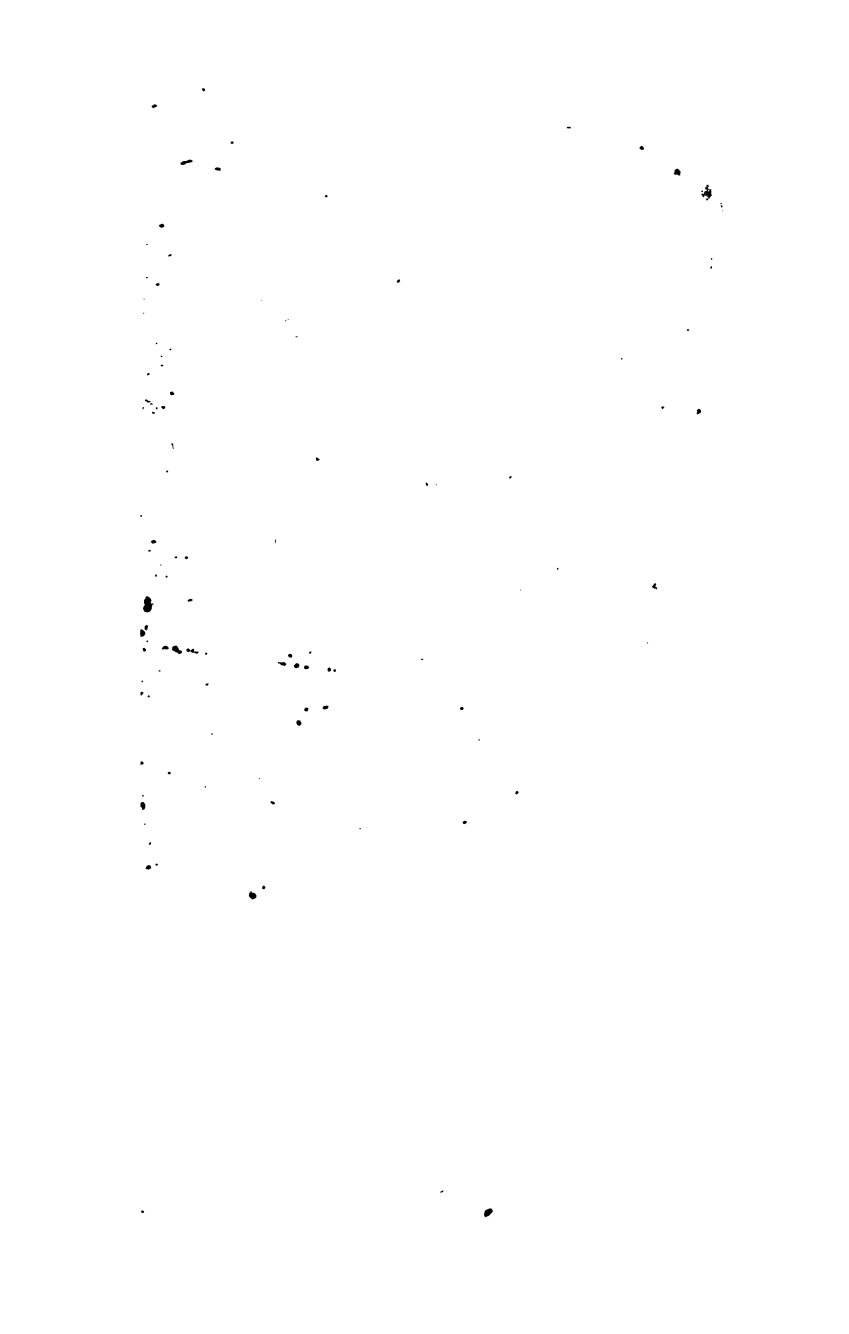
MORALS and criticism are not so properly objects of the understanding as of taste and sentiment. Beauty, whether moral or natural, is felt, more properly than perceiv'd. Or if we reason concerning it, and endeavour to fix its standard, we regard a new fact, *viz.* the general taste of mankind, or some such fact, which may be the object of reasoning and enquiry.

WHEN we run over libraries, persuaded of these principles, what havoc must we make? If we take in our hand any volume; of divinity or school metaphysics, for instance; let us ask, *Does it contain any abstract reasonings concerning quantity or number?* No. *Does it contain any experimental reasonings concerning matters of fact or existence?* No. Commit it then to the flames: For it can contain nothing but sophistry and illusion.

F I N I S.

E R R A T A.

PAGE 173. l. 20. for *an* read *in*. P. 187. l. 22. read *persons*. P. 188. l. 4. read *as related*. P. 189. l. 21. read *face of it*.









**book is under no circumstances to be
taken from the Building**

[illegible]



